



Magyarországi földrengések évkönyve Hungarian Earthquake Bulletin 2019

Tóth L., Mónus P., Kiszely M., Trosits D.

GeoRisk

Földrengés Mérnöki Iroda ♦ Earthquake Engineering

Budapest

MAGYARORSZÁGI FÖLDRENGÉSEK ÉVKÖNYVE

HUNGARIAN EARTHQUAKE BULLETIN

2019

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Earthquakes in Hungary

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BEVEZETÉS

A Pannon-medencében a földrengés aktivitás a lemezperemi területekhez képest mérsékelt, a rengések epicentrumainak eloszlása pedig első pillantásra rendszertelennek látszik. Nehéz eldönteni, hogy a földrengések izolált területeken, vagy szeizmikusan aktív vonalak mentén keletkeznek. Mindenesetre felismerhető néhány terület, ahol viszonylag gyakran fordult elő a múltban földrengés. Ilyenek pl. Eger és környéke, ahol 70 év alatt legalább 16 földrengés és több mint 50 nagyobb utórengés történt. Komárom és Mór környékén, Jászberény, Kecskemét és Dunaharaszti közelében szintén jelentős volt az aktivitás egy-egy bizonyos időszakban. Az alacsony szeizmicitás nem feltétlenül jelenti a földrengések méretének csekélységét: komoly épületkárokat okozó földrengésekről van szó, néhány esetben talajfolyósodást is okozó gyorsulásokkal (pl. 1763 Komárom, M 6.2; 1911 Kecskemét, M 5.6; 1956 Dunaharaszti, M 5.6), esetleg a felszínen is megjelenő töréssel (pl. 1834 Érmellék, M 6.2). Ezek a példák azt mutatják, hogy 6.0-6.5 magnitúdójú rengések lehetségesek, de nem gyakoriak a Pannon-medencében (Tóth et al., 2002a).

A földtudományi kutatás fontos eleme a szeizmicitás vizsgálata, annak megismerése, hogy milyen gyakorisággal, hol és mekkora földrengések keletkeznek, továbbá melyek azok a szeizmotektonikai folyamatok, melyek a földrengéseket létrehozzák.

Az általános ismeretszerzésen túlmenően a földrengés elleni védekezéshez is fontos segítséget nyújt a szeizmicitás pontos ismerete. Egy terület földrengés veszélyeztetettségét csak komplex szeizmológiai, geofizikai, geológiai ismeretek alapján lehet meghatározni. A legfontosabb információ, mely mennyiségileg meghatározza a földrengésveszélyességet, a terület földrengés története, illetve a jelenkori rengések ismerete. Ehhez nyújt kardinális fontosságú segítséget a földrengés monitorozás, a földrengések megfigyelése, mérése és paramétereinek meghatározása.

Magyarországon a földrengésmérő állomások száma és minősége 1995-ben érte el azt a szintet, hogy a lakosság által érzékelt valamennyi rengést a hálózat nagy valószínűséggel detektálja. Ez nagyrészt annak a szeizmikus megfigyelő hálózatnak volt köszönhető, melyet a Paksi Atomerőmű létesített az atomerőmű telephely tágabb környezetében. Ekkor vált lehetővé a lokális földrengések hipocentrumának számítása. A mérőhálózat 2016-ban ismét nagyot fejlődött, öt lyukszeizmográf állomás épült és kezdte meg működését.

Jelen kiadványunk célja és tartalma pontosan az, amit a címe is jelez: évkönyv, melyben megtalálható minden olyan adat és ismeret, melyet az év során a magyarországi földrengésekkel kapcsolatban összegyűjtöttünk. A célterület a 45.5-49.0 É szélesség és 16.0-23.0 K hosszúság által határolt földrajzi tartomány. Reméljük, hogy hasznát látják munkánknak mindazok, akik földtudományi kutatásaikban felhasználói a szeizmicitás adatoknak, de azok is, akik csupán egy-egy földrengéssel kapcsolatos kérdésükre keresnek választ kiadványunkban.

INTRODUCTION

Seismicity in the Pannonian basin is relatively low comparing to the peripherals and the distribution of earthquake epicenters shows a rather scattered pattern at the first glance. It is particularly difficult to decide whether the epicenters occur at isolated places or along elongated zones however, at several single places earthquakes occur repeatedly. For example, near to Eger (47.9 N; 20.4 E) at least sixteen earthquakes with more than fifty greater aftershocks occurred over a time interval of some 70 years. Komárom and Mór area (47.4-47.8 N; 18.2 E), Jászberény (47.5 N; 20.0 E), Kecskemét (46.9 N; 19.7 E) and Dunaharaszti (47.4 N; 19.0 E) also produced significant activity over a certain but limited period of time. Moderate seismicity does not necessarily mean moderate size of earthquakes: reports of major earthquakes often refer to heavy building damage, liquefaction (e.g. 1763 Komárom earthquake, M 6.2; 1911 Kecskemét earthquake, M 5.6; 1956 Dunaharaszti earthquake, M 5.6) and sometimes the possibility of surface fault rupture (e.g. 1834 Érmellék earthquake, M 6.2). These observations indicate that magnitude 6.0-6.5 earthquakes are possible but not frequent in the Pannonian basin (Tóth et al., 2002b).

The study of the recent seismicity is an important element of seismotectonic research. Earthquakes represent the sudden release of slowly accumulated strain energy and hence provide direct evidence of active tectonic processes. However, low and moderate seismicity at intraplate areas generally precludes reliable statistical correlation between epicenters and geological features.

Moreover, as one of the chief contributor to seismic hazard at a given area, detailed knowledge of seismicity also plays an important role in earthquake risk reduction. To be useful, accurately located earthquakes are required. While good information about larger historical earthquakes exists for about the past few hundred years, these are not well enough located. Only modern seismic monitoring networks, capable of locating small magnitude local earthquakes provide the necessary information to close this knowledge gap. The developing database of well-located earthquakes can be used, in one hand, to resolve the tectonic framework and required on the other hand to refine our understanding of the level of seismic risk.

1995 was a milestone in the history of Hungarian seismological observations as the Paks Nuclear Power Plant Ltd. installed a network of high quality digital seismographs. For the first time, this network made it possible to detect and locate small magnitude local seismic events in most parts of the country. In 2016, the network significantly developed again, as five new borehole stations were built and began operations.

The present Earthquake Bulletin is a united annual summary report of all Hungarian earthquake monitoring projects. The information in the Bulletin is based on all available earthquake related data provided by different organizations. The geographic region covered is bounded by latitudes 45.5-49.0 N and longitudes 16.0-23.0 E.

1.

ÖSSZEFOGLALÁS

A 2019. év szeizmikus szempontból összességében átlagosan aktív időszaknak tekinthető Magyarországon. Az érezhető rengések száma is az átlagos körüli, nyolc rengés volt érezhető. Az év folyamán 1090 szeizmikus eseményről szereztünk tudomást a 45.5-49.0 É szélességi és 16.0-23.0 K hosszúsági koordináták által határolt területen, amelyek közül 316 volt természetes eredetű földrengés, 774 pedig robbantás.

Az észlelt földrengések mérete a $-0.2 \leq M_L \leq 4.1$ lokális magnitúdó tartományba esett. A fészekmélység minden esetben sekély (0 – 30 km), jellemzően 6 – 12 km közötti.

A kőbányarobbantások szeizmikus magnitúdói a $0.3 \leq M_L \leq 2.7$ tartományban voltak, a fészekmélységük pedig minden esetben nulla.

Az évben összesen nyolc olyan földrengés volt, melyet a lakosság is érzett.

A legnagyobb műszeresen meghatározott magnitúdójú rengés 4.1 M_L , míg a legnagyobb földrengés intenzitás, melyet Magyarország területéről az év folyamán jelentettek 5 EMS fokozatú volt. Földrengés következtében épületkárok nem keletkeztek.

A rengések mindegyike többé-kevésbé ismert forrászónához köthető. A Vértes hegységben, a Komárom – Berhida közé eső területen, a Móri-árok forrászónában most is számos földrengést regisztráltunk. Ennek egyik, nem szeizmotektonikai magyarázata az állomáshálózat fokozott érzékenysége ezen a területen.

Február 17-én délután 2.7 M_L magnitúdójú földrengés pattant ki Somogy megyében, Somogyszob közelében. A rengés az epicentrum térségében érezhető volt, intenzitása elérte a 4 EMS fokot.

Február 22-én este 2.2 M_L magnitúdójú földrengés pattant ki Heves megyében, Tenk térségében. A rengés az epicentrum térségében érezhető volt, intenzitása elérte a 4 EMS fokot.

A február 17-i rengést követően március 7-én este újabb, 4.0 M_L magnitúdójú földrengés volt érezhető Somogy megyében, Somogyszob közelében. A rengés intenzitása az epicentrum térségében elérte az 5 EMS fokot.

Május 17-én reggel 2.7 M_L magnitúdójú földrengés pattant ki Budakeszi közelében. A rengés az epicentrum térségében érezhető volt, intenzitása elérte a 4 EMS fokot.

Július 13-án 2.5 M_L magnitúdójú földrengést éreztek Sósút – Budaörs környékén. A rengés intenzitása 4 EMS fokra becsülhető az epicentrum környezetében.

Egy kicsi, 2.2 M_L magnitúdójú földrengést éreztek Jászberény térségében helyi idő szerint július 23-án éjjel. A rengés intenzitása 3-4 EMS fokra becsülhető az epicentrum környezetében.

A február 22-i 2.2 M_L magnitúdójú földrengést követően augusztus 11-én éjjel 4.1 M_L magnitúdójú földrengést jeleztek ismét Heves megyéből, Tenk térségéből. A rengés intenzitása 4-5 EMS fokra becsülhető az epicentrum környezetében.

Néhány hónappal a július 13-i 2.5 M_L magnitúdójú földrengést követően december 13-án 2.9 M_L magnitúdójú földrengést jeleztek ismét Sósút - Törökbálint térségéből. A rengés intenzitása 4 EMS fokra becsülhető az epicentrum környezetében.

1.

SUMMARY

2019 was an average active year for Hungarian seismicity. The number of felt earthquakes was eight, also around the average. Out of the 1090 seismic events located within the area bounded by latitudes 45.5-49.0 N and longitudes 16.0-23.0 E, 316 were identified as natural earthquakes and 774 were known as explosions, mostly quarry blasts.

The magnitude of the earthquakes was in the range of $-0.2 \leq M_L \leq 4.1$. Each of the earthquakes had shallow (0 – 30 km) focal depth, typically in the range of 6 – 12 km.

The seismic magnitude of the quarry blasts was in the range of $0.3 \leq M_L < 2.7$ with zero focal depth.

During the year, eight earthquakes were reported as felt.

The highest magnitude assigned to a shock was 4.1 M_L while the highest intensity reported during the year was 5 EMS. No building damage was reported during the year.

On February 17th, a 2.7 M_L magnitude earthquake occurred in Somogy County, near to Somogyszob. The quake was reported felt from the epicentral area. The maximum intensity was estimated around 4 EMS at the epicentral area.

In the evening of February 22nd, a 2.2 M_L magnitude earthquake occurred in the surroundings of Tenk, Heves County. The quake was reported felt from the epicentral area. The maximum intensity was estimated around 4 EMS at the epicentral area.

Following the February 17th earthquake, another 4.0 M_L quake was reported felt from Somogy County, near to Somogyszob. The quake was somewhat larger than the previous one, the maximum intensity was estimated around 5 EMS at the epicentral area.

On May 17th, a 2.7 M_L magnitude earthquake occurred near to Budakeszi. The quake was reported felt from the epicentral area. The maximum intensity was estimated around 4 EMS at the epicentral area.

In July 13th, a 2.5 M_L magnitude earthquake was felt and reported at Sóskút – Budaörs area. The maximum intensity was estimated 4 EMS.

A small 2.2 M_L magnitude earthquake was felt at Jászberény area around midnight local time of July 23rd. The maximum intensity was estimated 3-4 EMS.

Following the February 22nd 2.2 M_L earthquake, another 4.1 M_L quake was reported felt from Tenk, Heves County in 11th of August. The quake was somewhat larger than the previous one, the maximum intensity was estimated around 4-5 EMS at the epicentral area.

A few months after the July 13th 2.5 M_L earthquake, another 2.9 M_L quake was reported felt from Sóskút – Törökbálint area in 13th of December. The quake was somewhat larger than the previous one, the maximum intensity was estimated around 4 EMS at the epicentral area.

2.

FÖLDRENGÉS MEGFIGYELŐ ÁLLOMÁSOK MAGYARORSZÁGON

2019-ben 32 állandó és elérhető szeizmográf állomás működött Magyarországon, melyek közül öt lyukszeizmográf, huszonhét felszíni állomás. Az állomások közül tizenhetet a GeoRisk Földrengés Mérnöki Iroda Kft., tizenötöt pedig a CSFK Geodéziai és Geofizikai Intézet (CSFK GGI) üzemeltetett (2.1. Táblázat és 2.1. ábra).

Szélessávú lyukszeizmográf állomások

Az év folyamán 5 modern szélessávú lyukszeizmográf állomás működött (PKB1, PKB2, PKB3, PKB4, PKB5). Az állomásokon az érzékelő 3 komponenses szélessávú Nanometrics Trillium Posthole szeizmométer, mely 150 m-es béléscsővezetett fúrólyuk alá van telepítve. A felszíni aknában elhelyezett digitalizáló, adatgyűjtő és kommunikációs egység Nanometrics Centaur CTR-3. Mindegyik állomás internet összeköttetéssel rendelkezik.

Szélessávú felszíni állomások

2019-ben 15 szélessávú felszíni szeizmológiai állomás működött (ABAH, AMBH, BEHE, BSZH, BUD, CSKK, EGYH, KOVH, LTVH, MORH, MPLH, PSZ, SOP, TIH, TRPA). Az állomások nagy részénél az érzékelő 3 komponenses szélessávú Streckeisen STS-2, illetve STS-2.5 szeizmométer; az érzékelő jele EarthData PS-6-24 digitalizáló egységen át jut a SeisComp szoftverrel felszerelt adatgyűjtő számítógépre. Az AMBH, CSKK, EGYH, LTVH és TIH állomásokon Güralp CMG-3T szeizmométer és Güralp CMG-DM24S3-EAM adatgyűjtő egység található. Mindegyik állomás internet összeköttetéssel rendelkezik.

Rövidperiódusú felszíni állomások

A 13 rövidperiódusú felszíni állomás közül tíz teljesen azonos mérőeszközzel van felszerelve. Ezekon Güralp CMG-40T rövidperiódusú, 3 komponenses szeizmométer és Güralp CMG-DM24S3-EAM digitalizáló és adatgyűjtő működik, folyamatos regisztrálással. Egy állomáson (CSKK) Kinemetrics SS-1 szenzor és Güralp CMG-DM24S3-EAM digitalizáló és adatgyűjtő működik. További két állomáson (NADP és PNNH) pedig Lennartz LE-3D szenzor, MARS-88MC digitalizáló és SeisComp PC. Mindegyik állomás internet összeköttetéssel rendelkezik.

GeoRisk adatközpont (www.foldrenges.hu)

Az összes mérőállomáson regisztrált adatot egy felhő alapú adatközpontban gyűjtjük és dolgozzuk fel. Az adatok közel valós időben, egy erre a célra kifejlesztett protokoll (SeedLink) felhasználásával jutnak el az adatközpontba. Az adatok átlagos késése a valós időhöz képest 10 másodperc körüli. Minden állomás digitális adataiból napi szeizmogramok készülnek kép formátumban. A képi szeizmogramok egyrészt az érdeklődők tájékoztatását, másrészt a működés ellenőrzését is szolgálják. Ezek a szeizmogramok is közel valós idejűek.

Az események hullámfázisainak körültekintő manuális kimérése alapján állítjuk össze havonta a fázisadatokat (kimérési adatokat) tartalmazó jelentést. A fázisadatok felhasználásával – a saját adatokat kiegészítve a szomszédos országok szeizmológiai intézményeinek hasonló adataival (2.2. ábra) – havonta eseménylista készül (*Havi Jelentés* és *Havi Földrengés Tájékoztató*), mely a helyi és regionális földrengések hipocentrum adatait tartalmazza.

A mérési adatok, szeizmogramok és a kiértékelés további eredményei nagyrészt nyilvánosan elérhetők az interneten is a www.foldrenges.hu oldalon.

Átlagos zaj- (talajnyugtalanság) viszonyokat feltételezve a magyarországi szeizmológiai hálózat jelenlegi észlelési képessége $M_L=1.0-2.0$ magnitúdó körül van. Az ország középső részén lényegesen alacsonyabb, a határok környékén kissé magasabb az érzékenységi küszöb. Ez azt jelenti, hogy a lakosság által érzékelt valamennyi rengést a hálózat nagy valószínűséggel detektálja.

HUN-Reng virtuális szeizmológiai hálózat

A kommunikáció fejlődése, a valós idejű adatátvitel és az azonos adatátviteli protokoll (SeedLink) Európa-szerte elterjedt használata lehetővé tette, hogy idegen állomások adatait is fogadjuk közel valós időben ugyanúgy, mint a saját állomásainkét (2.2. Táblázat). Az összes elérhető hazai és külföldi állomások mérési adatainak felhasználásával a földrengések paraméterei még pontosabban, megbízhatóbban számíthatók ki. Ezen kívül a nagyszámú állomás adatához való valós idejű hozzáférés lehetővé tette egy automatikus földrengésjelző rendszer elindítását is. Ez a rendszer automatikusan képes felismerni a földrengéseket, és azok paramétereit néhány percen belül kiszámítja, térképen és listán automatikusan meg is jeleníti. Az online földrengés információ elsősorban gyors tájékoztatásul szolgál (www.foldrenges.hu).

2.

SEISMOGRAPH STATIONS IN HUNGARY

In 2019, there were 32 permanent seismograph stations running and available in Hungary: five borehole stations and twenty seven surface stations. Seventeen of the permanent stations were operated by GeoRisk Earthquake Engineering Ltd. and fifteen of them by Geodetic and Geophysical Institute, Research Centre for Astronomy and Earth Sciences (CSFK GGI). (Table 2.1 and Fig. 2.1)

Broadband borehole stations

During the year, five modern broadband borehole stations were in operation (PKB1, PKB2, PKB3, PKB4, PKB5). Nanometrics Trillium Posthole 3-component broadband seismometers are installed in the bottom of a 150 m deep steel cased borehole at the stations. Nanometrics Centaur CTR-3 digitizers and acquisition systems, along with the communication units are arranged in a small pit. Each station has a connection to the Internet.

Broadband surface stations

Fifteen broadband surface stations (ABAH, AMBH, BEHE, BSZH, BUD, CSKK, EGYH, KOVH, LTVH, MORH, MPLH, PSZ, SOP, TIH, TRPA) were running during the year. Most of these stations have Streckeisen STS-2 or STS-2.5 very broadband seismometers as sensors and EarthData PS-6-24 digitizer. Linux PC's with SeisComP software have been used as data acquisition systems. Five stations (AMBH, CSKK, EGYH, LTVH and TIH) are equipped with Güralp CMG-3T seismometer and Güralp CMG-DM24-S3-EAM data acquisition module. Each station has a connection to the Internet.

Short period surface stations

Out of the thirteen short period stations ten have have similar hardware. These stations are equipped with Güralp CMG-40T short period seismometers and Güralp CMG-DM24S3-EAM digital acquisition system. One of the stations, CSKK has Kinometrics short period SS-1 sensors, and Güralp CMG-DM24S3-EAM digital acquisition system for recording and communication with the Data Centre. Two stations, NADP and PNNH have Lennartz LE-3D sensor, MARS-88MC digital acquisition system and SeisComP PC for recording. Continuous data are recorded at each short period station. Each station has a connection to the Internet.

GeoRisk Data Centre (www.foldrenge.hu)

All recorded data from each station are transmitted to and processed at a cloud based *Data Centre*. Using digitally recorded data, analogue “live seismograms” are calculated for each station. The main purposes of the “live seismograms” are feeding public interests in one hand, and rapid visualization of the operational status and quality check of the stations on the other.

A careful manual offline analysis is used for event identification and picking the phases on each recorded seismogram. Merging the phase data of the Hungarian network and the same kind of available data sets from neighboring countries, preliminary event lists are calculated on monthly schedule. Based on technical and operational statistics of the stations, list of local and regional seismic events and their hypocenter information, *Monthly Reports* are compiled.

Data that are collected by the *Data Centre* are published in a variety of formats on the internet at www.foldrenge.hu.

The estimated detection capabilities of the present network with average noise conditions, supposing that at least four stations is needed for origin determination, is typically around 1.0-2.0 M_L , somewhat lower in the middle of the country and a little higher towards the border regions. This means that in most parts of the country it is very unlikely that felt events go undetected.

HUN-Reng Virtual Seismic Network

Development in communication technology and standardized communication protocols, software packages made available to access near real time data of stations beyond the domestic network. SeedLink and SeisComP developed at GEOFON became a kind of standard all over Europe. The larger pool of data provided by an extended, “virtual network” of seismic stations helps to have faster and more accurate earthquake locations and parameter determinations. In addition, near real time access to data from large number of stations makes possible to operate automatic rapid earthquake alarm systems. Automatically generated earthquake lists and epicenter maps are the main product of such systems (www.foldrenge.hu). The present configuration of the *HUN-Reng* virtual seismic network is shown in Table 2.2.

2.1. Táblázat Magyarországi szeizmológiai állomások, műszerek és alapkőzet

Table 2.1. Seismic stations in Hungary, instrumentation and lithology

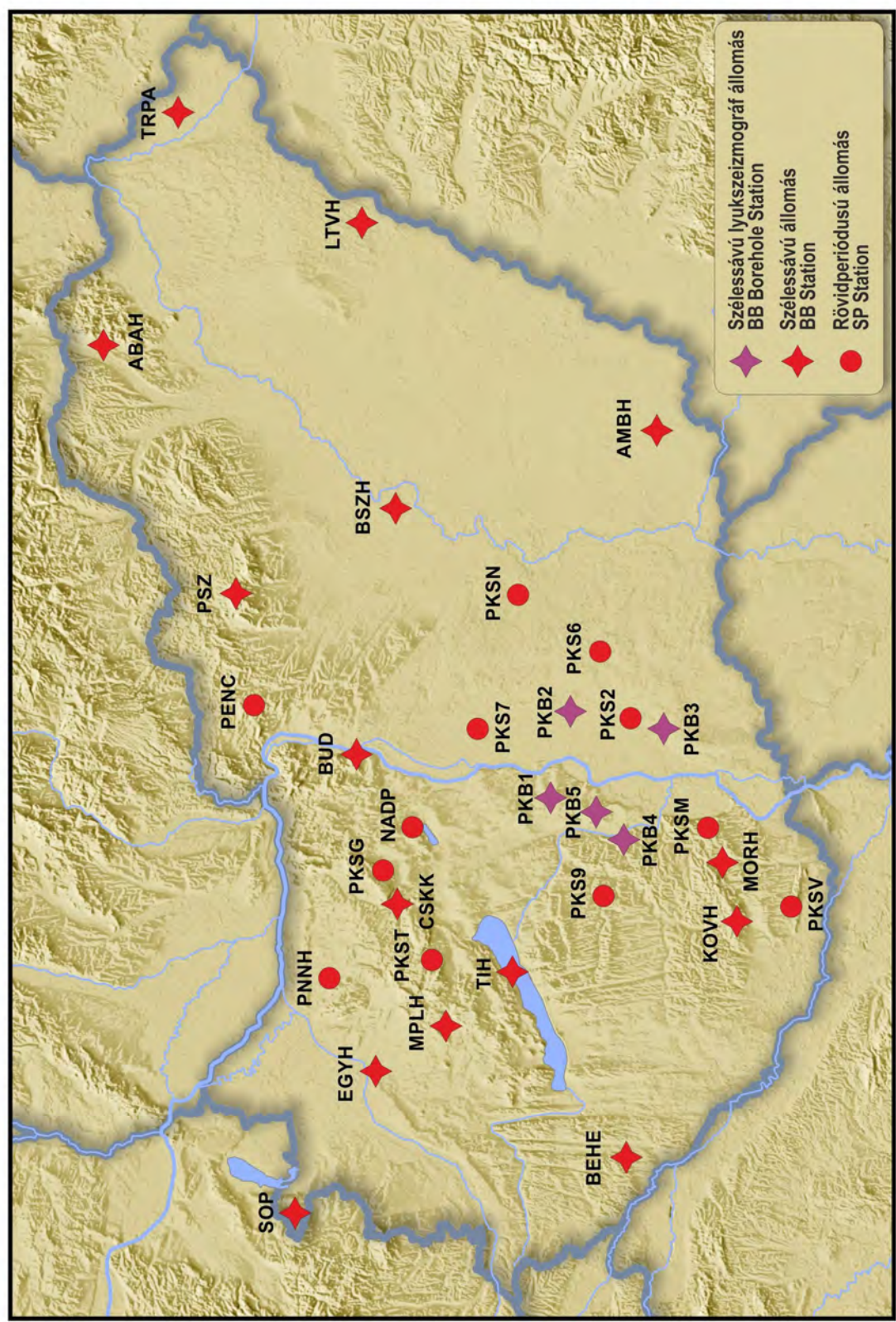
Kód Helység Code Location	Szélesség Latitude (N)	Hosszúság Longitude (E)	Magasság Elevation (m)	Alapkőzet Foundation	Állomás típusa Station type (1)	Érzékelő típusa Sensor type (2)	Adatgyűjtő típusa Recording equipment (3)	Szerv. Org. (4)
ABAH Abaújkér	48.2961	21.2395	173	kőzet rock	3C BB	STS-2.5	CMG-DM24S3- EAM	GGI
AMBH Ambrózfalva	46.3501	20.7258	91	üledék alluvium	3C BB	CMG-3T	CMG-DM24S3- EAM	GGI
BEHE Becsehely	46.4704	16.7757	298	üledék alluvium	3C BB	STS-2	PS-6-24+ SeisComP PC	GGI
BSZH Besenyszög	47.2996	20.2670	82	üledék alluvium	3C BB	STS-2.5	PS-6-24 + SeisComP PC	GGI
BUD Budapest	47.4836	19.0239	196	dolomit dolomite	3C BB	STS-2	PS-6-24+ SeisComP PC	GGI
CSKK Csókakő	47.3631	18.2605	319	dolomit dolomite	3C BB	CMG-3T	CMG-DM24S3- EAM	GGI
EGYH Egyházaskesző	47.4171	17.3318	225	kőzet rock	3C BB	CMG-3T	CMG-DM24S3- EAM	GGI
KOVH Kővágótöttös	46.0883	18.0999	270	mészke limestone	3C BB	STS-2.5	PS-6-24 + SeisComP PC	GGI
LTVH Létavértes	47.3849	21.9007	121	homok sand	3C BB	CMG-3T	CMG-DM24S3- EAM	GGI
MPLH Magyarpolány	47.1702	17.5395	307	kőzet rock	3C BB	STS-2.5	PS-6-24 + SeisComP PC	GGI
MORH Mórág	46.2149	18.6435	135	gránit granite	3C BB	STS-2	PS-6-24 + SeisComP PC	GGI
NADP* Nadap	47.2577	18.6176	210	kőzet rock	3C SP	LE-3D	MARS-88MC+ SeisComP PC	GR
PENC Penc	47.7905	19.2817	250	üledék alluvium	3C SP	CMG-40T	CMG-DM24S3- EAM	GR
PKS2 Kecel	46.4920	19.2131	106	homok sand	3C SP	CMG-40T	CMG-DM24S3- EAM	GR
PKB1 Előszállás	46.7843	18.7922	178	üledék alluvium	3C BB	TC20-PH2	CTR-3	GR
PKB2 Akasztó	46.6744	19.2419	92	üledék alluvium	3C BB	TC20-PH2	CTR-3	GR
PKB3 Császártöltés	46.4238	19.1949	110	üledék alluvium	3C BB	TC20-PH2	CTR-3	GR
PKB4 Kölesd	46.4963	18.6038	172	üledék alluvium	3C BB	TC20-PH2	CTR-3	GR
PKB5 Pusztahencse	46.5950	18.7356	184	üledék alluvium	3C BB	TC20-PH2	CTR-3	GR
PKS6 Bócsa	46.5998	19.5645	120	homok sand	3C SP	CMG-40T	CMG-DM24S3- EAM	GR
PKS7 Kunszentmiklós	47.0473	19.1609	95	agyag mud	3C SP	CMG-40T	CMG-DM24S3- EAM	GR
PKS9 Tamási	46.5870	18.2789	240	löss loess	3C SP	CMG-40T	CMG-DM24S3- EAM	GR
PKSG Gánt	47.3918	18.3907	200	dolomit dolomite	3C SP	CMG-40T	CMG-DM24S3- EAM	GR
PKSM Mórág	46.2119	18.6413	170	gránit granite	3C SP	CMG-40T	CMG-DM24S3- EAM	GR

Kód Helység Code Location	Szélesség Latitude (N)	Hosszúság Longitude (E)	Magasság Elevation (m)	Alapkőzet Foundation	Állomás típusa Station type (1)	Érzékelő típusa Sensor type (2)	Adatgyűjtő típusa Recording equipment (3)	Szerv. Org. (4)
PKSN Nyárlőrinc	46.8970	19.8667	110	homok sand	3C SP	CMG-40T	CMG-DM24S3- EAM	GR
PKST Tés	47.2590	18.0343	473	dolomit dolomite	3C SP	CMG-40T	CMG-DM24S3- EAM	GR
PKSV Villány	45.8885	18.2521	420	mészkö limestone	3C SP	CMG-40T	CMG-DM24S3- EAM	GR
PNNH** Pannonhalma	47.5525	17.7611	280	löss loess	3C SP	LE-3D	MARS-88MC+ SeisComp PC	GR
PSZ Piszkéstető	47.9184	19.8944	940	andezit andesite	3C BB	STS-2	PS-6-24 + SeisComp PC	GEOFON /GGI
SOP Sopron	47.6833	16.5583	260	gneisz gneiss	3C BB	STS-2	PS-6-24 + SeisComp PC	GGI
TIH Tihany	46.9001	17.8877	183	kőzet rock	3C BB	CMG-3T	CMG-DM24S3- EAM	GGI/MFGI
TRPA Tarpa	48.1304	22.5391	113	andezit andesite	3C BB	STS-2	PS-6-24 + SeisComp PC	GGI

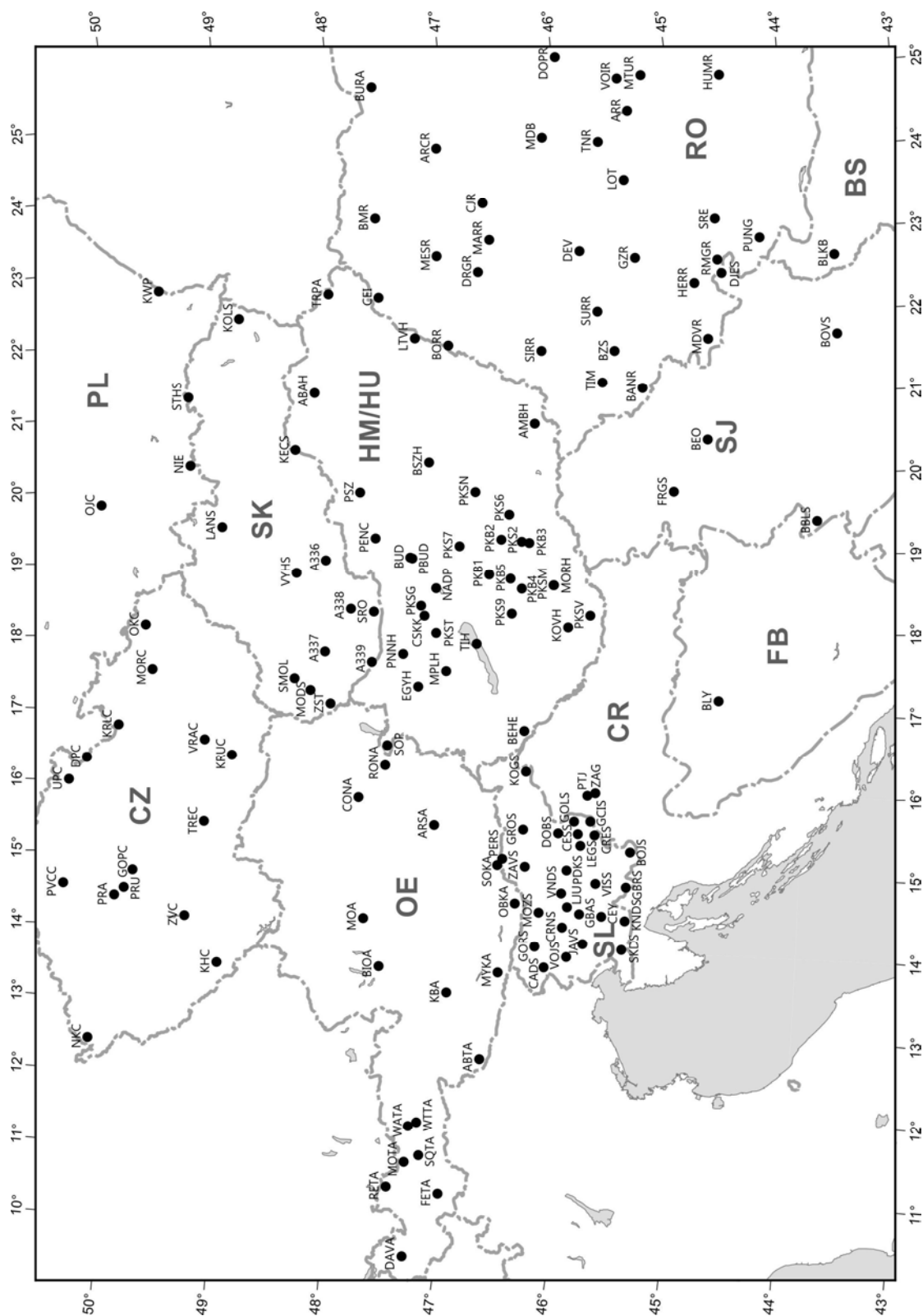
* Működés vége / Close date: 2019.08.15.

** Működés vége / Close date: 2019.03.01.

- (1) 3C – 3 komponenses szeizmométer / three component seismometer
 SP – rövid periódusú szeizmométer / short period seismometer
 BB – széles sávú szeizmométer / broad band seismometer
- (2) STS-2 / STS-2.5 – Streckeisen széles sávú szeizmométer / Streckeisen broadband seismometer
 CMG-40T – Güralp rövidperiódusú szeizmométer / Güralp short period seismometer
 CMG-3T – Güralp széles sávú szeizmométer / Güralp broad band seismometer
 TC20-PH2 – Nanometrics Trillium széles sávú lyukszeizmométer /
 Nanometrics Trillium Compact Posthole broadband seismometer
 LE-3D – Lennartz 3 komponenses 1Hz-es geofon / Lennartz three directional 1Hz geophone
- (3) PS-6-24 – Earth Data digitalizáló / Earth Data digitizer
 CMG-DM24S3-EAM – Güralp adatgyűjtő / Güralp data acquisition module
 SeisComp – GEOFON Seismological Communication Processor
 CTR-3 – Nanometrics Centaur adatgyűjtő / Nanometrics Centaur data acquisition module
 MARS-88MC – Lennartz adatgyűjtő / Lennartz data acquisition system
- (4) GGI – CSFK Geodéziai és Geofizikai Intézet / Geodetic and Geophysical Institute, CSFK
 GR – GeoRisk Földrengés Mérnöki Iroda Kft. / GeoRisk Earthquake Engineering Ltd.
 GEOFON – GEOFON Program GFZ Potsdam / GEOFON Program GFZ Potsdam
 MFGI – Magyar Földtani és Geofizikai Intézet / Geological and Geophysical Institute of Hungary



2.1. ábra Szeizmológiai állomások Magyarországon 2019-ben (részletek: 2.1. Táblázat)
Figure 2.1. Seismograph stations in Hungary in 2019 (See Table 2.1. for details)



2.2. ábra A hipocentrum meghatározáshoz használt szeizmológiai állomások

Figure 2.2. Seismograph stations used for hypocenter determination

2.2. Táblázat HUN-RENG virtuális szeizmológiai hálózathoz felhasznált fizikai hálózatok
Table 2.2. Physical networks used in HUN-RENG virtual seismic network

Hálózat kódja* Network code*	Az üzemeltető hálózat Operating network
CU	CariUSGS Caribbean Network USGS, Golden, CO
CZ	Czech Seismic Network Geophysical Institute, Czech Academy of Sciences
FB	Seismic Network of Federation of Bosnia and Herzegovina
GE	GEOFON GEOForschungsNetz (Geo Research Network)
GT	Global Telemetered Southern Hemisphere Network USGS Albuquerque Seismological Laboratory
HM	GeoRisk Earthquake Engineering, Hungary
HU	Hungarian National Seismological Network Institute of Geodesy and Geophysics, Research Centre for Astronomy and Earth Sciences
II	IRIS/IDA Network University of California, Scripps Institute of Oceanography
IU	IRIS/USGS Network USGS Albuquerque Seismological Laboratory
JP	Japan Meteorological Agency Seismic Network Japan Meteorological Agency Seismic, Tokyo Japan
MK	Seismological Observatory Skopje, Republic of Macedonia (MK)
MN	MEDNET Istituto Nazionale di Geofisica, Italy
MY	Malaysian National Seismic Network Malaysian Meteorological Service
NZ	New Zealand National Seismograph Network Institute of Geological & Nuclear Sciences, Wellington, New Zealand
OE	Austrian Seismic Network ZAMG - Central Institute for Meteorology and Geodynamics
PL	Polish Seismological Network Polish Academy of Sciences, Warsaw
RO	Romanian Seismic Network National Institute for Earth Physics, Romania
SJ	Serbian Seismological Network Seismological Survey of Serbia
SK	Slovak National Seismic Network Geophysical Institute, Slovak Academy of Sciences
SL	Slovenia Seismic Network Slovenia Geological Survey, Ljubljana

*FDSN (International Federation of Digital Seismograph Networks) kód

3.

ESEMÉNYLISTA

ÉS

FÖLDRENGÉS FÉSZKEPARAMÉTEREK

A FÖLDRENGÉS FÉSZKEPARAMÉTEREK MEGHATÁROZÁSA

A fészkeparaméterek rutinszerű kiszámításához a HYPO71PC programot használtuk (Lee and Lahr, 1975). A kimérés és magnitúdó meghatározás a K. Stammler által készített SeismicHandler program segítségével történt.

A fészkeparaméterek meghatározásánál mind a magyarországi, mind a szomszédos országok állomásainak adatait felhasználtuk. A számításnál az egyes állomások kimérési adatait az epicentrumtól való távolsággal fordított arányban súlyoztuk. Néhány esetben, amikor elegendő P fázis adat állt rendelkezésre, az S fázis adatokat nem használtuk fel.

SEBESSÉGMODELL

A számításnál felhasznált 3 rétegű sebességmodell több száz helyi és közeli földrengés kéregfázis adatain alapul (Mónus, 1995).

<i>Sebesség (v_P) [km/s]</i>	<i>Mélység [km]</i>	<i>Vastagság [km]</i>	v_P/v_S
5,60	0,0	20,0	1,78
6,57	20,0	11,0	
8,02	31,0	∞	

3.

LIST OF ORIGINS

AND

HYPOCENTER PARAMETERS

METHOD FOR HYPOCENTER PARAMETER DETERMINATION

HYPO71PC (Lee and Lahr, 1975) was used for the routine calculation of hypocenter parameters. SeismicHandler software package by K. Stammler has been used for phase picking and magnitude determination.

The hypocenter parameters have been calculated using phase readings of seismological stations from Hungary and from the adjoining countries. However, a distance weighting has been applied, phase data from stations with epicenter distance greater than 450 km have been weighted out. In some cases, when sufficient number of P readings were available, S phase readings were not used in the calculations.

CRUSTAL VELOCITY MODEL

The three-layer crustal velocity model used in the hypocenter calculations has been derived from crustal phase travel times of several hundreds of local earthquakes (Mónus, 1995).

<i>Velocity (v_P)</i> <i>[km/s]</i>	<i>Depth</i> <i>[km]</i>	<i>Thickness</i> <i>[km]</i>	v_P/v_S
5.60	0.0	20.0	1.78
6.57	20.0	11.0	
8.02	31.0	∞	

FÖLDRENGÉSEK LISTÁJA / LIST OF EARTHQUAKES

Nap	Kipattanási idő UTC óó pp mp	Földrajzi koordináták Lat Long	Mélys. (km)	ML	I _{MAX} (EMS)	Helyszín
Day	Origin time UTC hr mn sec	Geographic coordinates Lat Long	Depth (km)	ML	I _{MAX} (EMS)	Locality or Region
JANUÁR / JANUARY, 2019						
05	7:27:10.2	47.118N 21.211E	1	2.3	-	Füzesgyarmat
05	7:34:27.3	47.088N 21.129E	20	1.9	-	Füzesgyarmat
06	6:46:18.6	46.600N 22.096E	7	2.2	-	Romania
07	2:05:47.6	46.109N 21.996E	3	2.0	-	Romania
08	1:57:03.3	46.333N 17.590E	7	1.2	-	Gige
09	23:43:44.8	47.845N 18.694E	18	1.1	-	Slovakia
11	22:22:22.0	48.747N 18.819E	16	1.9	-	Slovakia
11	23:10:15.7	45.820N 17.349E	10	1.7	-	Croatia
12	21:05:16.6	48.659N 19.415E	16	1.4	-	Slovakia
13	20:27:17.4	47.284N 18.261E	10	1.0	-	Fehérvárcsurgó
14	9:19:15.2	45.534N 17.917E	16	1.5	-	Croatia
15	1:08:02.4	47.372N 18.253E	2	0.4	-	Mór
15	6:54:49.1	46.092N 16.368E	11	2.0	-	Croatia
15	6:56:10.6	46.104N 16.378E	10	1.6	-	Croatia
18	4:40:50.8	46.193N 16.532E	9	2.1	-	Croatia
18	5:47:22.5	46.175N 16.562E	10	2.1	-	Croatia
19	6:35:27.4	47.353N 18.267E	7	1.3	-	Csókakő
21	15:10:50.4	46.965N 18.552E	8	1.2	-	Sárszentágota
22	8:10:37.3	45.602N 17.782E	10	1.4	-	Croatia
22	19:34:06.1	46.977N 17.524E	14	1.5	-	Taliándörög
23	13:37:58.5	46.135N 18.071E	2	1.3	-	Abaliget
23	13:40:30.5	46.102N 18.105E	5	1.2	-	Kővágótóttós
27	17:18:42.5	46.328N 18.614E	9	0.7	-	Kakasd
29	7:47:31.7	47.836N 18.615E	6	2.1	-	Slovakia
29	10:35:31.2	47.771N 19.051E	17	1.6	-	Dunabogdány
29	19:59:29.5	47.383N 18.174E	0	0.4	-	Nagyveleg
30	12:45:39.9	46.149N 16.381E	10	2.3	-	Croatia
31	9:25:44.5	46.582N 22.587E	1	1.4	-	Romania
31	11:48:45.3	47.366N 18.396E	5	1.2	-	Gánt
FEBRUÁR / FEBRUARY, 2019						
01	11:45:38.3	46.007N 16.403E	13	2.6	-	Croatia
02	18:57:25.7	47.832N 18.654E	14	1.6	-	Slovakia
04	3:07:49.2	48.361N 22.931E	11	1.5	-	Ukraine
04	20:04:09.1	46.395N 21.278E	1	1.6	-	Romania
05	6:14:50.5	46.960N 21.723E	14	1.7	-	Romania
05	21:39:13.2	47.835N 18.330E	10	1.3	-	Slovakia
06	15:15:45.6	48.649N 19.421E	4	1.0	-	Slovakia
06	15:43:37.9	47.924N 20.740E	10	1.5	-	Vatta
06	15:57:39.8	47.924N 20.737E	3	1.7	-	Vatta
06	19:12:21.1	47.889N 20.782E	4	1.5	-	Vatta
07	3:22:50.2	48.181N 18.952E	10	0.8	-	Slovakia
07	14:34:23.5	46.398N 21.240E	14	1.7	-	Romania
08	1:13:34.8	46.967N 21.696E	10	1.8	-	Romania
08	11:57:36.4	48.653N 19.445E	1	1.4	-	Slovakia
09	2:02:51.2	47.294N 17.725E	0	0.8	-	Bakonykoppány
09	23:42:30.9	46.889N 21.501E	10	1.9	-	Mezőgyán

Földrengés paraméterek

Hypocenter Parameters

09	23:45:12.4	48.159N	22.879E	8	2.2	-	Ukraine
10	2:24:37.4	47.381N	18.113E	7	0.2	-	Nagyveleg
13	8:53:20.6	45.603N	17.347E	12	1.9	-	Croatia
15	1:33:30.2	48.308N	18.470E	0	0.6	-	Slovakia
16	5:52:14.8	46.321N	17.288E	14	1.6	-	Somogyszob
16	6:16:38.6	46.303N	17.316E	13	1.8	-	Ötvöskőnyi
16	13:52:23.3	46.376N	21.321E	16	2.4	-	Romania
16	21:20:11.6	47.349N	18.181E	2	0.2	-	Nagyveleg
17	14:40:44.3	46.313N	17.296E	16	2.7	4	Somogyszob
17	15:03:50.1	46.310N	17.294E	13	2.0	-	Somogyszob
20	10:11:51.6	45.991N	16.074E	0	1.7	-	Croatia
21	10:35:15.5	45.595N	17.334E	10	2.2	-	Croatia
22	18:57:52.9	47.665N	20.320E	8	2.2	4	Tenk
23	12:56:29.0	47.378N	18.205E	10	1.4	-	Mór
23	12:59:15.5	47.304N	18.252E	5	0.1	-	Fehérvárcsurgó
24	13:44:38.8	47.402N	18.445E	6	1.4	-	Csákvár
24	14:44:33.8	48.681N	19.400E	1	1.6	-	Slovakia
25	0:18:04.4	47.314N	18.321E	10	0.3	-	Söréd
27	9:22:39.1	46.374N	21.546E	3	2.6	-	Romania
27	19:39:53.4	46.819N	18.541E	14	1.1	-	Mezőszilas
28	11:08:03.8	45.629N	17.329E	10	2.0	-	Croatia
28	11:09:15.7	45.574N	17.406E	12	1.7	-	Croatia
28	15:48:51.3	46.098N	21.699E	10	2.0	-	Romania

MÁRCIUS / MARCH, 2019

02	7:16:03.9	46.368N	21.514E	10	1.6	-	Romania
04	21:46:13.7	47.534N	18.942E	12	1.7	-	Budakeszi
06	8:16:54.2	47.128N	17.962E	14	0.9	-	Kádárta
07	19:07:54.2	46.306N	17.303E	18	4.0	5	Somogyszob
07	19:21:16.7	46.261N	17.387E	10	1.0	-	Ötvöskőnyi
07	19:38:21.7	46.277N	17.392E	10	1.3	-	Szabás
07	21:06:59.2	47.510N	18.969E	10	1.5	-	Budakeszi
08	0:11:55.3	46.312N	17.315E	16	1.7	-	Ötvöskőnyi
08	23:22:20.3	47.352N	18.283E	3	0.1	-	Csákberény
09	0:21:40.1	47.383N	18.261E	8	1.1	-	Mór
09	0:22:23.2	47.376N	18.265E	5	0.5	-	Csókakő
09	0:23:01.7	47.400N	18.245E	2	0.7	-	Pusztavám
09	0:23:24.0	47.396N	18.261E	8	0.8	-	Pusztavám
09	0:24:09.7	47.354N	18.281E	4	0.0	-	Csókakő
09	1:12:45.7	47.383N	18.264E	4	0.2	-	Mór
11	17:45:31.0	46.338N	17.306E	4	1.1	-	Segesd
11	19:08:26.6	47.404N	18.392E	0	2.1	-	Gánt
12	9:56:44.1	45.567N	17.449E	10	1.9	-	Croatia
12	15:02:33.9	48.358N	20.952E	10	2.0	-	Selyeb
12	15:55:50.3	46.107N	21.747E	5	1.9	-	Romania
12	23:23:17.8	45.607N	18.007E	18	1.3	-	Croatia
13	8:58:22.7	47.948N	20.012E	10	1.6	-	Bodony
14	9:48:24.5	45.715N	17.288E	13	1.7	-	Croatia
14	20:02:43.2	46.476N	17.332E	1	1.3	-	Nagyszakácsi
15	10:42:09.1	46.111N	21.730E	9	1.6	-	Romania
16	15:08:16.7	45.663N	17.914E	10	2.4	-	Croatia
20	12:15:27.1	45.565N	17.410E	10	1.4	-	Croatia
27	2:56:23.9	46.301N	18.419E	1	0.6	-	Györe
27	11:31:38.5	45.732N	17.279E	12	1.3	-	Croatia
27	18:10:28.8	46.151N	16.372E	7	1.7	-	Croatia
31	10:10:30.3	47.330N	18.279E	4	0.4	-	Söréd

ÁPRILIS / APRIL, 2019

01	0:34:24.3	45.948N	18.544E	0	0.1	-	Bóly
05	13:52:31.9	46.317N	17.303E	10	2.4	-	Somogyszob

Hypocenter Parameters

Földrengés paraméterek

08	4:54:28.6	48.951N	18.372E	10	1.8	-	Slovakia
11	4:10:03.2	46.842N	18.893E	8	1.3	-	Dunaegyháza
13	4:04:02.3	48.785N	19.863E	10	1.5	-	Slovakia
15	3:42:28.2	48.992N	18.442E	6	2.1	-	Slovakia
15	22:14:40.5	45.586N	18.514E	7	2.2	-	Croatia
16	9:17:06.3	45.524N	17.322E	10	2.1	-	Croatia
16	9:51:56.0	48.294N	16.052E	10	2.9	-	Austria
19	10:51:58.2	45.672N	17.268E	10	1.1	-	Croatia
20	1:21:06.3	47.391N	18.229E	10	0.1	-	Mór
20	20:18:54.5	47.411N	18.343E	5	0.9	-	Gánt
22	7:56:15.7	48.302N	19.371E	8	1.4	-	Slovakia
23	20:48:47.3	47.563N	18.921E	12	1.2	-	Solymár
24	14:04:11.0	47.367N	18.290E	9	1.2	-	Csókakő
24	19:32:53.2	46.318N	19.852E	24	1.5	-	Üllés
28	5:52:31.4	48.274N	22.622E	12	1.9	-	Ukraine
29	1:09:51.4	45.757N	17.973E	4	2.0	-	Croatia
30	17:52:21.8	47.377N	18.107E	3	0.5	-	Nagyveleg

MÁJUS / MAY, 2019

01	9:15:11.2	45.639N	16.255E	10	2.6	-	Croatia
03	20:20:09.6	48.789N	19.507E	2	1.7	-	Slovakia
06	4:19:34.4	47.395N	18.258E	5	0.6	-	Mór
06	4:21:30.0	47.401N	18.261E	4	0.4	-	Pusztavám
06	5:34:04.9	47.404N	18.263E	4	0.4	-	Pusztavám
06	16:08:06.0	47.343N	18.295E	5	0.7	-	Csákerény
06	16:11:01.2	47.397N	18.264E	5	0.7	-	Pusztavám
07	0:52:36.5	48.650N	19.426E	4	1.1	-	Slovakia
07	8:33:23.0	45.600N	17.337E	13	1.9	-	Croatia
07	11:51:46.4	48.789N	20.075E	2	1.7	-	Slovakia
07	12:43:43.6	47.898N	19.244E	2	0.8	-	Alsópetény
07	17:52:29.0	47.843N	19.354E	0	1.0	-	Nógrádsáp
08	10:35:28.7	45.529N	17.712E	13	1.5	-	Croatia
09	9:28:14.4	48.843N	20.455E	5	1.8	-	Slovakia
10	5:32:54.5	47.730N	18.078E	10	1.5	-	Komárom
11	20:09:44.1	47.370N	18.248E	3	0.5	-	Mór
16	10:39:36.2	47.413N	18.178E	11	2.3	-	Felsődobos
17	7:00:26.5	47.545N	18.943E	11	2.7	4	Budakeszi
17	10:08:00.4	45.500N	18.038E	1	1.8	-	Croatia
17	13:05:14.4	45.847N	17.365E	14	1.6	-	Croatia
18	1:30:23.9	47.651N	18.451E	10	1.1	-	Tardosbánya
19	11:46:19.0	45.687N	17.881E	6	1.8	-	Croatia
19	15:50:53.1	48.644N	19.450E	5	1.2	-	Slovakia
19	18:53:13.6	48.652N	19.424E	4	1.0	-	Slovakia
19	21:34:43.7	46.442N	18.965E	0	1.9	-	Fajsz
21	23:36:49.5	47.546N	18.934E	10	1.6	-	Budakeszi
24	18:31:22.4	47.832N	18.656E	10	1.1	-	Slovakia
25	0:57:10.2	47.833N	18.640E	14	1.2	-	Slovakia
25	17:49:14.9	48.263N	18.971E	10	-0.2	-	Slovakia
27	8:23:14.1	48.723N	18.806E	5	1.6	-	Slovakia
28	2:53:40.5	47.380N	18.139E	5	0.1	-	Nagyveleg
29	20:09:17.0	47.346N	18.200E	4	0.0	-	Bodajk
29	22:52:19.2	47.816N	17.234E	10	2.1	-	Újrónafő
30	0:25:03.9	46.521N	20.069E	14	1.3	-	Ópusztaszer
30	11:02:21.6	45.556N	17.746E	16	1.3	-	Croatia

JÚNIUS / JUNE, 2019

07	8:10:00.8	47.603N	16.315E	10	1.3	-	Austria
09	8:52:07.0	46.090N	17.024E	11	1.6	-	Croatia
10	14:27:48.1	45.536N	16.151E	8	2.2	-	Croatia
11	8:42:32.6	45.530N	17.832E	10	1.7	-	Croatia

Földrengés paraméterek

Hypocenter Parameters

13	12:59:19.2	47.808N	16.250E	15	1.3	-	Austria
13	17:47:05.5	47.803N	16.233E	15	1.6	-	Austria
14	9:59:24.8	47.547N	16.301E	8	1.3	-	Austria
14	10:34:46.5	47.877N	16.323E	10	1.5	-	Austria
14	12:34:11.1	47.760N	16.136E	9	2.3	-	Austria
17	7:52:49.8	45.966N	16.070E	6	1.8	-	Croatia
17	21:05:50.8	47.386N	18.184E	9	1.0	-	Mór
20	8:40:19.1	47.267N	18.435E	13	2.0	-	Pátka
22	20:57:29.7	47.674N	20.289E	8	2.3	-	Erdőtelek
23	12:04:17.6	45.961N	17.218E	30	1.8	-	Croatia
23	14:09:44.3	47.680N	20.259E	6	2.5	-	Tarnabod
24	2:37:44.1	47.862N	17.281E	9	1.6	-	Mosonmagyaróvár
24	3:08:53.3	47.823N	17.311E	13	2.2	-	Máriakálnok
30	21:13:08.2	45.525N	17.942E	16	1.0	-	Croatia
30	23:02:51.2	46.009N	21.040E	8	1.5	-	Romania
JÚLIUS / JULY, 2019							
04	10:18:37.8	46.206N	16.063E	16	2.2	-	Croatia
05	7:27:22.4	46.215N	16.057E	0	2.3	-	Croatia
05	20:06:01.9	45.915N	16.004E	8	1.7	-	Croatia
06	0:38:21.9	48.368N	22.879E	12	2.1	-	Ukraine
10	11:13:16.6	48.505N	22.772E	10	2.2	-	Ukraine
11	22:05:02.3	46.032N	16.129E	10	1.7	-	Croatia
13	7:27:37.1	46.696N	21.091E	7	2.0	-	Mezőmegyer
13	12:37:40.5	47.500N	18.819E	6	1.2	-	Páty
13	12:41:12.6	47.435N	18.849E	11	2.5	4	Sóskút
13	12:42:30.9	47.448N	18.843E	11	1.2	-	Biatorbágy
13	12:46:40.5	47.457N	18.833E	10	0.8	-	Biatorbágy
13	13:13:23.7	47.354N	18.176E	10	1.1	-	Nagyveleg
14	5:17:04.0	46.036N	16.138E	8	1.5	-	Croatia
15	9:01:35.0	45.620N	17.320E	10	2.0	-	Croatia
15	14:42:22.3	48.572N	20.805E	2	1.7	-	Tornanádaska
18	11:58:11.4	45.993N	16.033E	1	1.7	-	Croatia
19	10:18:53.8	45.974N	22.687E	3	1.9	-	Romania
19	13:06:01.5	46.132N	21.708E	10	1.4	-	Romania
19	23:28:30.3	47.377N	18.140E	4	0.1	-	Nagyveleg
20	15:50:44.6	47.462N	18.836E	10	1.2	-	Biatorbágy
20	19:43:50.6	47.364N	18.233E	3	0.0	-	Mór
22	23:14:05.0	47.460N	19.869E	12	2.2	3.5	Jászberény
22	23:15:06.1	47.502N	19.804E	10	1.5	-	Jászfelsőszentgyörgy
28	7:23:02.7	46.222N	16.648E	7	1.9	-	Croatia
28	22:59:04.1	47.921N	16.991E	10	1.6	-	Austria
30	6:21:43.5	47.402N	18.272E	10	0.8	-	Pusztavám
AUGUSZTUS / AUGUST, 2019							
02	17:50:26.4	47.822N	18.340E	10	1.6	-	Slovakia
02	22:34:31.7	45.903N	17.196E	10	1.9	-	Croatia
05	1:27:25.2	47.400N	18.117E	1	0.5	-	Aka
06	17:33:18.8	47.199N	18.373E	2	1.1	-	Székesfehérvár
07	9:14:11.5	48.597N	21.427E	1	1.8	-	Slovakia
11	23:29:46.8	47.644N	20.330E	14	4.1	4.5	Tenk
12	2:44:25.1	47.696N	20.338E	0	1.1	-	Erdőtelek
12	3:03:38.6	47.671N	20.346E	10	1.4	-	Tenk
13	3:14:32.8	47.706N	20.430E	5	1.0	-	Besenyőtelek
13	3:53:01.7	47.656N	20.326E	5	1.2	-	Tenk
13	12:49:43.2	47.663N	20.342E	11	2.3	-	Tenk
14	7:17:28.8	47.626N	20.347E	10	1.6	-	Tenk
14	9:47:36.3	47.643N	20.316E	11	1.3	-	Tenk
15	8:57:19.3	46.174N	18.293E	7	1.0	-	Zobákpuszt
15	9:02:26.8	47.229N	18.270E	1	0.7	-	Iszkaszentgyörgy

Hypocenter Parameters

Földrengés paraméterek

15	9:05:16.2	48.528N	20.771E	7	2.1	-	Tornaszentandrás
15	10:39:53.5	47.518N	18.561E	10	1.3	-	Nagyegyháza
16	6:58:09.5	46.025N	22.818E	3	1.5	-	Romania
16	22:11:33.5	47.636N	20.353E	10	1.0	-	Tenk
17	18:00:45.1	47.636N	20.324E	9	1.4	-	Tenk
17	21:54:30.4	47.639N	20.291E	2	1.0	-	Heves
18	3:06:54.4	47.674N	20.336E	5	1.0	-	Tenk
18	20:27:11.1	47.313N	18.310E	9	-0.1	-	Söréd
19	0:49:32.3	47.585N	20.288E	4	1.2	-	Heves
19	20:32:31.7	47.610N	20.289E	5	1.0	-	Heves
20	9:44:23.7	45.636N	18.111E	8	1.7	-	Croatia
21	0:45:44.9	47.635N	20.284E	2	1.2	-	Heves
21	2:19:07.6	47.629N	20.296E	0	1.1	-	Heves
21	4:52:39.5	48.514N	17.638E	1	1.5	-	Slovakia
21	13:39:41.6	47.498N	19.827E	10	2.2	-	Jászfelsőszentgyörgy
21	20:16:21.8	47.632N	20.309E	2	1.0	-	Heves
23	10:26:34.7	45.920N	17.655E	10	1.5	-	Potony
24	4:36:01.0	46.750N	21.255E	14	1.8	-	Doboz
26	21:09:16.5	45.958N	17.911E	5	0.8	-	Sumony
26	21:24:18.1	45.931N	17.915E	11	1.2	-	Okorág
26	21:55:52.0	47.639N	20.310E	2	0.8	-	Tenk
30	15:14:55.6	48.537N	22.851E	12	2.3	-	Ukraine
30	21:06:54.7	46.116N	16.601E	10	1.8	-	Croatia
30	22:14:55.3	46.128N	16.578E	10	1.5	-	Croatia
30	22:17:25.0	46.090N	16.633E	12	1.5	-	Croatia
30	22:19:21.3	46.127N	16.606E	10	1.6	-	Croatia
30	22:41:22.0	46.097N	16.630E	10	1.5	-	Croatia
31	0:53:37.5	46.120N	16.651E	10	1.9	-	Croatia
31	7:58:34.1	46.113N	16.656E	13	3.4	-	Croatia
31	8:18:29.5	46.113N	16.623E	10	2.1	-	Croatia
31	8:47:46.9	47.684N	20.380E	3	1.3	-	Tenk
31	13:50:05.8	47.675N	20.383E	4	1.0	-	Tenk

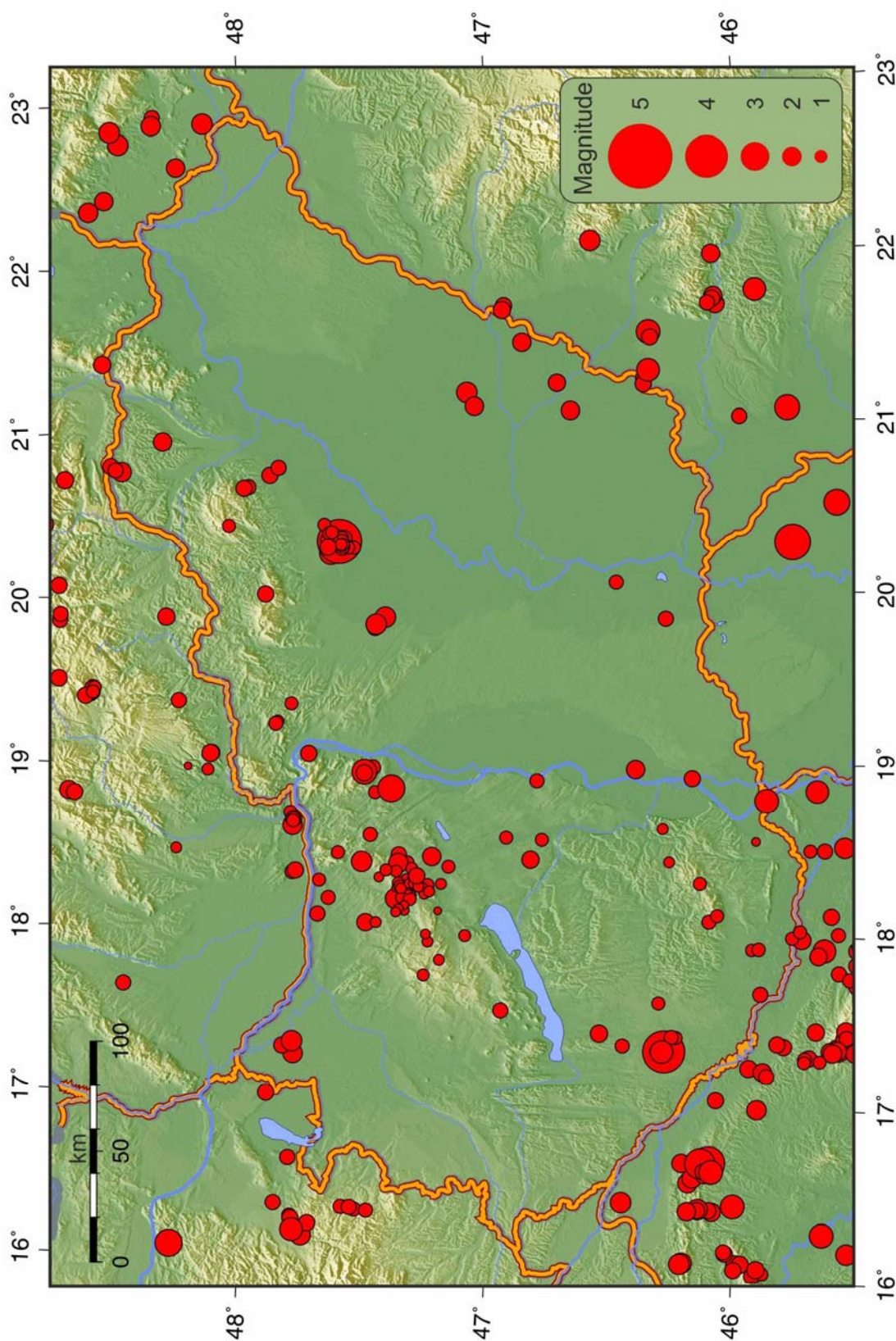
SZEPTEMBER / SEPTEMBER, 2019

01	11:37:40.8	47.686N	18.179E	16	1.3	-	Mocsa
02	10:45:11.2	45.619N	20.528E	13	2.8	-	Croatia
05	21:51:13.4	48.570N	22.432E	1	1.9	-	Ukraine
07	10:57:29.5	46.210N	18.916E	8	1.7	-	Baja
13	17:40:40.9	46.146N	16.648E	11	3.2	-	Croatia
13	22:29:35.0	46.131N	16.603E	14	1.6	-	Croatia
14	20:26:26.2	45.936N	21.777E	8	2.5	-	Romania
15	9:09:59.7	46.462N	16.404E	12	2.2	-	Croatia
16	15:33:20.1	45.795N	17.981E	18	1.2	-	Vejti
16	23:24:29.4	45.734N	17.263E	16	1.2	-	Croatia
16	23:39:48.3	45.888N	17.174E	16	1.5	-	Croatia
17	9:07:59.5	45.691N	17.443E	17	1.8	-	Croatia
21	10:57:24.0	47.481N	18.306E	10	0.3	-	Oroszlány
24	18:40:09.3	47.411N	18.243E	0	0.2	-	Pusztavám
24	20:48:08.6	47.396N	18.253E	9	0.9	-	Mór
24	23:02:26.1	47.334N	18.279E	4	0.8	-	Söréd
25	0:32:14.1	48.782N	19.900E	0	1.5	-	Slovakia
25	7:45:57.0	47.498N	16.298E	1	1.3	-	Austria
25	11:47:19.3	47.357N	18.264E	2	0.6	-	Csókakő
26	0:57:05.1	45.815N	21.083E	12	2.7	-	Romania
26	23:35:37.9	47.391N	18.241E	0	0.6	-	Mór
27	8:44:48.4	47.567N	16.312E	7	1.5	-	Austria
29	6:26:06.9	47.296N	18.210E	7	0.6	-	Bodajk
29	7:30:26.8	47.411N	18.099E	1	0.4	-	Aka
29	19:52:54.5	47.231N	17.818E	5	0.6	-	Pénzesgyőr
29	20:07:00.5	47.278N	17.923E	7	0.7	-	Nagyesztergár

Földrengés paraméterek

Hypocenter Parameters










29	21:24:23.1	47.289N	17.968E	1	0.5	-	Bakonyháza
OKTÓBER / OCTOBER, 2019							
01	16:10:08.2	47.347N	18.362E	13	0.8	-	Zámoly
02	16:07:22.4	47.276N	18.224E	6	0.6	-	Kincsesbánya
02	21:06:12.9	47.735N	16.210E	10	1.7	-	Austria
03	12:50:48.3	45.923N	16.977E	6	2.1	-	Croatia
05	9:55:43.3	47.337N	18.277E	4	1.5	-	Csákberény
07	9:24:44.4	48.551N	20.782E	1	1.5	-	Tornanádaska
07	21:57:05.7	47.725N	18.284E	16	1.2	-	Almásfüzitő
09	1:18:50.7	47.359N	18.271E	10	0.4	-	Csókakő
09	4:13:31.4	47.336N	18.272E	0	0.9	-	Csákberény
09	9:07:27.3	48.758N	20.726E	10	1.8	-	Slovakia
10	1:35:07.4	46.193N	16.364E	10	1.9	-	Croatia
13	13:21:20.4	47.320N	18.253E	2	0.6	-	Fehérvárcsurgó
13	23:15:48.5	47.425N	18.855E	8	0.2	-	Sóskút
14	20:25:01.7	45.876N	16.018E	7	1.1	-	Croatia
17	22:17:03.6	47.452N	18.350E	7	0.8	-	Oroszlány
23	4:34:42.1	48.167N	19.052E	11	1.6	-	Slovakia
26	2:08:59.1	47.797N	16.165E	4	2.4	-	Austria
27	1:57:54.6	45.764N	18.021E	10	1.2	-	Croatia
30	19:49:53.4	47.824N	16.600E	2	1.4	-	Austria
NOVEMBER / NOVEMBER, 2019							
05	5:12:41.4	48.095N	20.431E	3	1.2	-	Szilvásvár
09	0:57:01.3	47.240N	18.109E	13	-0.2	-	Várpalota
10	8:31:28.6	45.701N	18.841E	4	2.5	-	Croatia
12	5:46:22.3	47.551N	18.397E	8	2.3	-	Tatabánya
14	2:56:50.1	45.667N	18.493E	10	1.4	-	Croatia
18	11:16:37.4	48.859N	20.627E	7	2.0	-	Slovakia
19	7:33:52.5	46.866N	18.423E	5	1.8	-	Dég
26	4:10:49.1	46.101N	16.601E	10	2.6	-	Croatia
26	7:25:31.7	47.533N	18.032E	11	1.8	-	Kisbér
28	23:25:42.0	48.022N	20.663E	11	1.3	-	Kisgyőr
29	10:10:59.0	47.492N	18.032E	0	0.6	-	Kisbér
30	16:04:12.7	48.013N	20.666E	10	1.5	-	Kisgyőr
DECEMBER / DECEMBER, 2019							
06	19:03:49.2	47.906N	19.231E	8	1.3	-	Romhány
08	7:51:35.9	46.572N	17.403E	15	1.8	-	Marcali
10	15:21:59.3	48.171N	19.050E	12	1.8	-	Slovakia
12	10:34:37.3	48.353N	19.878E	10	1.8	-	Slovakia
12	13:14:55.8	47.691N	20.292E	1	1.7	-	Erdőtelek
13	16:57:44.2	47.436N	18.842E	9	2.9	4	Sóskút
17	0:28:07.5	45.800N	20.299E	11	3.6	-	Serbia
21	14:51:47.5	48.637N	22.366E	2	2.1	-	Ukraine
27	0:03:00.6	45.901N	16.042E	9	1.8	-	Croatia
27	1:01:13.9	45.726N	18.491E	0	1.0	-	Croatia
29	4:33:55.8	48.030N	20.659E	10	1.6	-	Kisgyőr
29	21:02:45.7	47.327N	18.317E	12	1.6	-	Söréd
31	3:13:25.3	45.906N	18.785E	6	2.6	-	Homorúd

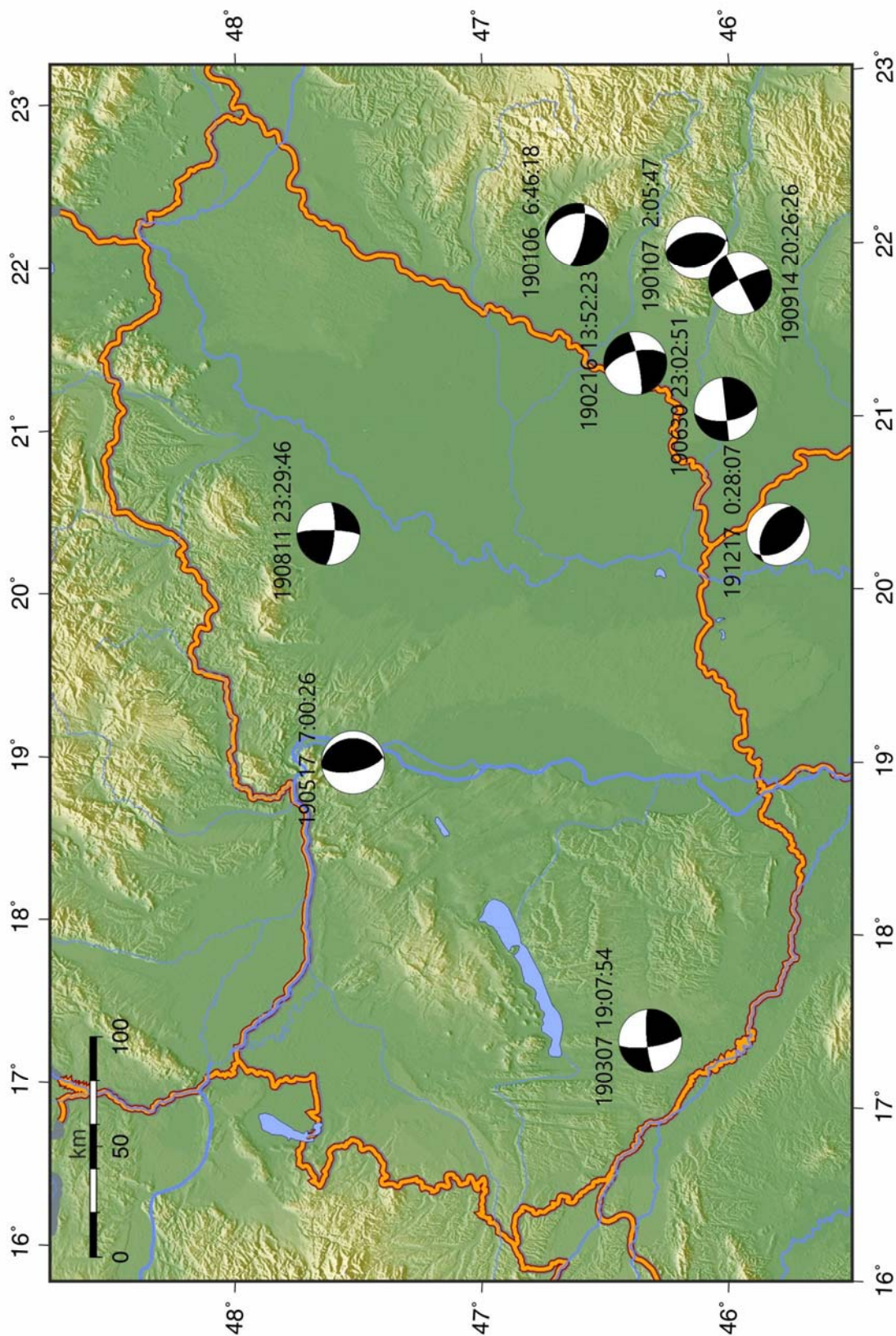


3.1. ábra A 2019-ben regisztrált földrengések epicentrumai

Figure 3.1. Epicenters of 2019 earthquakes

A 2019-ben regisztrált földrengések fészekmechanizmusai
Fault plane solutions of 2019 earthquakes

No	Date	Time	Epicentre		1st nodal plane			P axis		T axis		
			Lat	Lon	Strike	Dip	Rake	Azim	Plunge	Azim	Plunge	
1	2019.01.06.	06:46:18	46.60	22.09	105	75	-120	341	51	218	24	
2	2019.01.07.	02:05:47	46.11	22.00	160	40	80	77	5	307	82	
3	2019.02.16.	13:52:23	46.37	21.32	345	60	-10	307	27	209	14	
4	2019.03.07.	19:07:54	46.30	17.30	170	75	170	36	4	127	18	
5	2019.05.17.	07:00:26	47.54	18.94	0	25	100	262	20	70	69	
6	2019.06.30.	23:02:51	46.01	21.04	85	90	-30	36	21	134	21	
7	2019.08.11.	23:29:46	47.64	20.33	95	75	10	49	4	318	18	
8	2019.09.14.	20:26:26	45.93	21.78	65	90	-170	290	7	200	7	
9	2019.12.17.	00:28:07	45.80	20.30	145	45	110	41	2	138	76	



3.2. ábra A 2019-ben regisztrált földrengések fészekmechanizmusai

Figure 3.2. Fault plane solutions of 2019 earthquakes

ROBBANTÁSOK LISTÁJA / LIST OF EXPLOSIONS

Nap	Kipattanási idő UTC óó pp mp	Földrajzi koordináták Lat Long	ML	Helyszín
Day	Origin time UTC hr mn sec	Geographic coordinates Lat Long	ML	Locality or Region
JANUÁR / JANUARY, 2019				
04	9:03:04.5	48.582N 20.747E	1.5	Slovakia
07	9:29:16.1	48.516N 20.858E	1.8	Becskeháza
08	9:06:30.8	48.589N 20.760E	1.9	Slovakia
08	9:14:38.9	47.110N 17.747E	1.5	Szentgál
09	10:33:28.8	47.232N 18.240E	0.8	Iszkaszentgyörgy
10	9:02:56.3	45.846N 18.453E	0.9	Villány
10	9:12:51.8	48.615N 20.765E	1.6	Slovakia
11	9:08:12.8	48.547N 20.773E	2.1	Komjáti
11	10:17:42.1	47.175N 18.314E	1.0	Székesfehérvár
14	9:46:49.7	47.541N 18.459E	1.6	Tatabánya
14	10:29:24.6	47.214N 18.317E	1.1	Moha
14	10:42:04.3	48.604N 20.760E	1.6	Slovakia
15	8:15:18.6	47.335N 18.408E	1.7	Zámoly
15	10:14:09.2	47.209N 18.258E	0.6	Csór
16	10:26:21.6	48.597N 20.764E	1.9	Slovakia
17	9:04:06.3	47.359N 18.389E	1.5	Gánt
17	9:18:45.2	47.320N 18.392E	1.5	Zámoly
17	10:18:22.2	47.209N 18.287E	1.2	Iszkaszentgyörgy
21	10:57:54.9	48.605N 20.761E	1.9	Slovakia
21	11:06:36.4	47.102N 17.927E	1.4	Kádárta
22	8:55:52.8	47.320N 18.427E	2.0	Zámoly
22	10:38:39.0	47.230N 18.274E	1.3	Iszkaszentgyörgy
24	8:11:13.1	47.360N 18.390E	1.5	Gánt
24	9:31:26.7	46.165N 18.304E	0.7	Zobákpuszt
24	9:58:48.3	48.615N 20.775E	1.8	Slovakia
24	10:12:31.6	47.222N 18.283E	0.9	Iszkaszentgyörgy
24	10:46:15.6	47.291N 18.318E	1.2	Magyaralmás
24	11:02:54.7	48.204N 21.233E	2.1	Rátka
28	9:40:36.8	47.110N 18.014E	1.1	Királyszentistván
28	9:59:18.8	47.372N 18.424E	2.0	Gánt
29	9:11:15.5	48.616N 20.789E	1.4	Slovakia
30	10:27:17.6	47.208N 18.308E	1.0	Székesfehérvár
30	13:17:33.6	46.126N 18.028E	1.1	Hetvehely
31	8:29:48.3	47.311N 17.644E	1.3	Homokbödöge
31	8:39:52.2	47.343N 18.414E	1.4	Zámoly
31	10:04:30.9	48.613N 20.781E	1.6	Slovakia
31	10:28:20.3	47.207N 18.285E	1.0	Iszkaszentgyörgy
FEBRUÁR / FEBRUARY, 2019				
01	9:44:49.7	46.167N 18.297E	0.6	Zobákpuszt
04	8:30:24.8	47.854N 19.861E	1.6	Gyöngyösoroszi
04	9:24:57.8	48.627N 20.748E	1.5	Slovakia
04	11:14:52.5	47.216N 18.308E	1.2	Moha
05	9:07:27.1	47.130N 18.253E	1.0	Nádasdladány
05	10:58:50.0	47.367N 18.396E	1.7	Gánt
05	11:12:56.3	47.325N 18.413E	2.0	Zámoly

Hypocenter Parameters

Földrengés paraméterek

06	9:48:30.2	48.610N	20.756E	1.6	Slovakia
06	9:51:21.8	47.715N	18.647E	1.8	Tokod
07	8:10:45.7	47.068N	18.005E	0.6	Balatonfűzfő
07	9:52:48.1	48.500N	17.389E	2.1	Slovakia
07	9:55:50.0	47.844N	19.129E	1.5	Szendehely
07	9:57:14.5	48.601N	20.782E	1.6	Slovakia
07	11:41:36.0	46.125N	18.037E	1.2	Bükkösd
08	8:30:51.5	47.122N	18.119E	1.0	Berhida
08	9:01:13.0	48.618N	20.757E	1.6	Slovakia
08	9:10:09.9	46.988N	22.267E	1.8	Romania
08	9:16:09.9	47.361N	18.423E	1.9	Gánt
08	11:58:30.5	47.532N	18.517E	1.3	Szárliget
11	9:18:27.7	48.599N	20.738E	1.4	Slovakia
11	11:00:05.9	47.854N	19.166E	1.5	Ósagárd
11	14:23:10.7	48.598N	21.510E	1.6	Slovakia
12	12:23:35.6	48.603N	20.797E	1.6	Slovakia
13	8:04:12.3	48.022N	16.586E	1.8	Austria
13	9:02:30.8	47.876N	19.166E	1.7	Nőtincs
13	9:25:33.2	47.304N	17.634E	1.2	Homokbödöge
13	9:31:16.0	47.313N	17.630E	1.3	Homokbödöge
13	10:37:10.5	47.330N	18.449E	1.6	Zámoly
13	10:56:14.0	47.336N	18.443E	1.3	Zámoly
13	10:59:34.0	48.146N	16.873E	1.9	Austria
13	13:15:20.4	46.125N	18.042E	1.1	Hetvehely
14	11:01:37.7	47.938N	19.456E	1.3	Szanda
14	11:34:23.6	47.928N	19.404E	1.7	Becske
14	11:52:39.8	48.387N	18.432E	1.5	Slovakia
15	4:42:59.9	48.451N	17.231E	2.1	Slovakia
15	8:25:35.5	47.008N	22.238E	2.2	Romania
15	10:11:30.0	47.340N	18.400E	1.6	Zámoly
15	11:22:27.1	47.220N	18.279E	1.1	Iszkaszentgyörgy
18	9:07:21.6	47.570N	18.414E	1.1	Tatabánya
19	9:34:42.4	47.306N	18.328E	1.4	Magyaralmás
19	9:47:29.4	47.337N	18.437E	1.6	Zámoly
19	9:48:17.1	46.182N	18.273E	0.9	Mánfa
19	10:06:25.4	48.628N	20.741E	1.8	Slovakia
19	10:22:06.1	47.217N	18.280E	1.1	Iszkaszentgyörgy
20	8:06:01.2	47.208N	18.175E	0.9	Bakonykúti
20	8:14:33.5	47.224N	18.163E	1.1	Bakonykúti
20	10:24:34.0	47.210N	18.262E	0.6	Csór
21	7:28:50.4	47.111N	18.013E	0.8	Királyszentistván
21	9:12:44.1	47.329N	18.443E	1.4	Zámoly
21	9:17:19.7	48.684N	19.946E	1.5	Slovakia
21	9:32:14.2	48.579N	20.785E	1.6	Tornanádaska
21	9:54:56.5	47.852N	19.149E	1.5	Ósagárd
21	10:18:02.3	46.979N	22.237E	2.2	Romania
22	9:06:51.9	46.031N	22.823E	1.6	Romania
22	10:51:06.6	47.194N	18.296E	1.4	Székesfehérvár
25	9:46:15.7	48.267N	21.541E	2.5	Sárazsadány
25	11:03:01.9	48.182N	16.899E	2.1	Austria
25	11:10:04.9	47.222N	18.295E	1.4	Moha
25	12:39:47.9	48.368N	19.864E	1.7	Slovakia
26	9:14:30.6	47.353N	18.406E	1.8	Gánt
26	9:15:10.5	48.558N	20.778E	1.8	Tornanádaska
26	9:25:07.9	47.331N	18.466E	1.7	Lovasberény
26	10:49:49.3	47.211N	18.276E	0.6	Iszkaszentgyörgy
27	10:26:52.2	47.207N	18.291E	1.1	Iszkaszentgyörgy
28	9:42:37.2	48.308N	21.576E	1.8	Sárospatak
28	10:33:18.7	48.576N	20.776E	1.6	Tornanádaska

Földrengés paraméterek

Hypocenter Parameters

MÁRCIUS / MARCH, 2019

01	9:45:39.2	47.178N	18.302E	1.1	Sárkeszi
01	9:54:43.5	47.871N	19.190E	1.7	Ósagárd
01	10:17:12.6	47.686N	18.558E	2.0	Nagysáp
01	10:34:13.4	47.327N	18.399E	1.3	Zámoly
04	7:29:40.0	47.235N	18.159E	0.9	Bakonykúti
04	7:32:31.7	47.196N	18.198E	0.8	Csór
04	8:53:16.5	48.658N	20.759E	1.6	Slovakia
04	10:43:58.5	47.294N	18.420E	1.8	Zámoly
04	11:00:31.7	48.176N	16.867E	2.1	Austria
04	11:54:14.6	46.109N	17.973E	1.4	Dinnyeberki
04	12:45:45.4	47.182N	18.309E	1.2	Székesfehérvár
05	9:51:26.2	48.516N	17.473E	1.7	Slovakia
05	9:54:58.3	47.515N	18.557E	1.4	Nagyegyháza
05	10:02:29.0	48.588N	20.771E	1.9	Slovakia
06	8:15:02.2	48.442N	19.120E	0.8	Slovakia
06	10:56:15.4	48.607N	20.757E	1.6	Slovakia
06	11:25:56.5	48.320N	21.295E	2.0	Sima
06	11:55:15.3	47.220N	18.258E	0.6	Iszkaszentgyörgy
07	8:30:47.4	46.917N	22.816E	1.6	Romania
07	9:18:27.6	47.349N	18.427E	1.8	Gánt
07	10:04:58.8	47.855N	19.156E	1.4	Ósagárd
07	10:26:17.1	46.106N	18.024E	1.2	Bükkösd
07	11:21:01.8	46.136N	18.003E	1.2	Hetvehely
08	8:11:13.0	48.080N	20.694E	1.4	Miskolctapolca
08	8:32:01.3	48.328N	18.991E	1.4	Slovakia
08	8:42:28.2	47.450N	18.733E	1.4	Etyek
08	9:34:00.3	47.519N	18.615E	1.5	Bicske
08	10:16:45.8	47.000N	22.257E	1.9	Romania
08	10:35:23.7	46.057N	22.747E	1.8	Romania
08	14:04:50.7	47.103N	18.122E	1.0	Berhida
09	9:31:21.7	46.181N	18.289E	0.7	Zobákpusztá
11	10:34:52.4	47.857N	19.829E	1.5	Gyöngyöspata
11	10:49:13.8	48.302N	18.617E	2.0	Slovakia
11	11:01:01.4	48.180N	16.915E	2.0	Austria
11	11:16:13.5	47.027N	17.798E	1.5	Tótvázsony
11	11:40:16.2	47.327N	18.412E	2.1	Zámoly
12	9:36:50.0	48.596N	20.770E	1.6	Slovakia
12	10:13:24.5	46.247N	18.236E	0.9	Mecsekpölöske
12	10:17:49.0	47.094N	18.357E	0.8	Kőszárhegy
12	10:44:51.7	48.230N	21.264E	2.2	Tállya
12	13:00:05.8	48.511N	19.798E	2.0	Slovakia
13	9:30:49.5	46.176N	18.298E	1.0	Zobákpusztá
13	9:41:20.1	47.897N	20.067E	1.9	Parád
13	11:56:04.6	47.334N	18.383E	1.7	Zámoly
13	12:04:35.4	47.233N	18.271E	1.0	Iszkaszentgyörgy
14	9:43:31.4	46.847N	17.321E	1.9	Lesencefalu
15	9:09:05.2	48.550N	20.758E	1.5	Komjáti
15	9:26:53.7	47.003N	22.311E	1.9	Romania
15	10:51:08.1	48.472N	22.602E	1.9	Ukraine
15	10:52:43.6	48.478N	22.631E	1.5	Ukraine
15	10:59:58.2	48.136N	16.924E	1.9	Austria
15	13:50:05.9	46.096N	21.765E	1.3	Romania
18	8:39:49.6	46.055N	22.784E	1.8	Romania
18	11:45:15.7	46.141N	18.049E	1.2	Hetvehely
19	9:24:06.3	47.332N	18.394E	2.0	Zámoly
20	8:54:15.7	47.286N	17.641E	1.2	Homokbödöge
20	9:05:01.5	46.822N	22.874E	1.7	Romania
20	10:25:28.1	47.212N	18.284E	1.3	Iszkaszentgyörgy
21	10:17:36.1	47.292N	17.663E	1.8	Bakonykoppány

Hypocenter Parameters

Földrengés paraméterek

21	11:35:32.0	48.227N	21.230E	2.2	Tállya
21	11:37:39.3	46.135N	18.027E	1.1	Hetvehely
25	9:40:43.8	47.889N	19.186E	1.5	Felsőpetény
25	9:47:30.9	47.106N	18.021E	0.9	Királyszentistván
25	10:54:51.1	47.452N	18.710E	1.5	Etyek
26	10:40:53.8	47.203N	18.276E	0.7	Csór
26	11:23:08.4	47.326N	18.459E	1.4	Pátka
27	9:12:42.2	47.512N	18.368E	1.5	Vértessomló
27	9:27:04.3	47.798N	19.909E	1.3	Gyöngyös
27	10:06:16.9	48.615N	20.729E	1.5	Slovakia
28	9:36:58.5	47.336N	18.474E	1.2	Lovasberény
29	10:36:12.4	47.847N	19.116E	1.6	Szendehely
30	10:06:36.0	46.153N	18.304E	1.0	Vasas

ÁPRILIS / APRIL, 2019

02	7:55:38.9	48.578N	20.777E	1.4	Tornanádaska
02	9:11:19.9	47.229N	18.244E	0.6	Iszkaszentgyörgy
02	10:31:24.5	48.247N	21.294E	2.5	Erdőbénye
03	8:40:25.5	47.329N	18.456E	1.8	Pátka
03	9:30:30.6	46.826N	17.249E	1.8	Rezi
03	10:23:24.1	47.187N	18.287E	0.6	Sárkeszi
04	8:48:03.2	46.234N	18.243E	0.7	Komló
04	9:22:44.7	48.572N	20.749E	1.3	Tornanádaska
05	6:08:12.0	47.156N	18.190E	1.0	Ósi
05	8:12:45.5	47.884N	19.432E	1.8	Bercel
05	9:39:50.6	48.489N	18.714E	1.5	Slovakia
08	8:05:43.6	48.603N	20.751E	1.4	Slovakia
08	9:12:22.3	47.574N	18.504E	1.3	Tarján
09	6:03:45.7	47.307N	18.305E	1.1	Söréd
09	8:37:33.2	48.422N	18.997E	1.1	Slovakia
09	9:13:17.0	48.361N	18.514E	1.3	Slovakia
09	9:25:10.8	47.890N	19.181E	1.4	Felsőpetény
09	9:42:15.1	47.359N	18.409E	1.8	Gánt
10	8:56:10.5	46.199N	18.275E	1.2	Komló
10	9:27:54.1	47.334N	18.422E	1.5	Zámoly
10	11:03:03.5	48.651N	20.730E	1.4	Slovakia
10	11:09:55.6	48.417N	20.765E	1.4	Galvács
11	7:08:49.4	48.591N	20.781E	1.5	Slovakia
11	8:50:50.1	47.212N	18.286E	1.5	Iszkaszentgyörgy
11	9:35:19.7	47.202N	18.307E	0.8	Székesfehérvár
11	11:52:35.0	46.126N	18.093E	0.9	Abaliget
12	6:20:07.7	47.230N	18.214E	0.7	Bakonykúti
12	8:07:35.7	47.332N	18.410E	2.0	Zámoly
12	9:43:14.8	46.029N	18.120E	1.1	Pellérd
12	10:00:41.8	48.155N	16.914E	1.4	Austria
12	10:18:25.2	48.266N	21.208E	1.9	Abaújszántó
12	10:31:58.7	46.117N	18.063E	1.3	Bükkösd
15	8:37:25.3	48.567N	20.747E	1.5	Komjáti
15	8:42:17.5	47.362N	18.395E	1.4	Gánt
15	10:10:31.1	47.187N	18.312E	1.2	Székesfehérvár
16	8:17:36.3	45.879N	18.381E	1.1	Kisharsány
16	9:08:03.0	48.585N	20.718E	1.5	Slovakia
16	9:48:45.8	47.318N	18.402E	1.6	Zámoly
17	7:24:07.2	47.888N	19.415E	1.0	Bercel
17	9:30:56.3	48.588N	20.741E	1.5	Slovakia
17	11:16:13.7	47.914N	20.168E	1.5	Sírok
18	8:58:23.1	47.845N	19.109E	1.6	Szendehely
18	12:49:04.8	47.208N	19.085E	1.4	Áporka
23	8:02:43.4	47.108N	18.041E	1.0	Királyszentistván
23	8:26:09.1	48.270N	21.238E	1.8	Tállya

Földrengés paraméterek

Hypocenter Parameters

23	9:10:33.8	47.134N	18.037E	1.2	Hajmáskér
24	9:19:32.6	47.212N	18.273E	0.7	Iszkaszentgyörgy
24	9:32:44.5	48.431N	19.523E	1.5	Slovakia
25	7:50:13.4	48.597N	20.751E	1.5	Slovakia
25	8:03:42.2	47.860N	19.156E	1.6	Ősagárd
25	8:39:10.1	47.311N	18.327E	0.6	Magyaralmás
25	9:00:09.0	47.320N	18.314E	0.8	Söréd
25	9:33:41.3	46.127N	18.044E	0.9	Hetvehely
25	9:52:38.1	47.440N	18.412E	1.9	Várgesztes
25	10:01:30.2	48.360N	19.853E	1.7	Slovakia
26	6:24:44.7	47.208N	18.202E	0.6	Csór
26	6:29:00.4	47.201N	18.164E	0.6	Pétfürdő
26	7:35:12.1	47.526N	18.493E	1.4	Szárliget
26	10:14:49.7	48.556N	20.774E	2.0	Tornanádaska
29	7:50:05.9	47.360N	18.407E	1.5	Gánt
29	8:01:36.8	47.836N	19.901E	1.9	Gyöngyösoroszi
29	8:31:48.3	48.421N	19.121E	1.5	Slovakia
29	9:51:50.3	48.234N	21.235E	2.4	Tállya
29	10:00:14.9	48.172N	16.889E	1.6	Austria
30	7:17:03.9	47.978N	20.018E	1.5	Mátraballa
30	9:10:05.5	48.091N	20.606E	1.6	Lillafüred
30	9:14:46.7	46.089N	17.871E	1.4	Zsibót
30	10:08:55.0	47.944N	20.024E	1.8	Bodony
30	10:14:41.9	48.635N	21.416E	1.5	Slovakia

MÁJUS / MAY, 2019

01	9:03:53.0	45.528N	18.199E	1.7	Croatia
02	7:18:47.2	48.577N	20.756E	1.6	Tornanádaska
02	8:29:23.5	47.897N	19.403E	1.6	Bercel
02	8:47:15.7	47.861N	19.116E	1.6	Szendehely
02	10:11:40.5	48.443N	20.711E	1.5	Szalonna
03	8:04:05.6	48.588N	20.735E	1.4	Slovakia
03	9:53:39.0	47.463N	18.724E	1.5	Etyek
03	10:24:09.9	48.363N	19.874E	1.6	Slovakia
04	8:52:13.4	46.158N	18.291E	0.9	Vasas
06	10:01:09.3	47.350N	18.476E	1.7	Lovasberény
07	7:12:36.7	47.304N	17.675E	1.3	Bakonykoppány
07	8:12:24.3	48.584N	20.791E	1.4	Slovakia
07	8:27:10.0	47.324N	18.441E	1.9	Zámoly
07	9:56:20.4	47.199N	18.287E	1.0	Csór
07	11:18:30.2	47.349N	18.427E	1.5	Gánt
08	9:44:23.2	47.051N	17.887E	1.3	Veszprémfajsz
08	10:34:07.7	47.235N	18.263E	0.8	Iszkaszentgyörgy
09	9:00:18.2	46.113N	18.071E	1.2	Bakonya
09	9:45:48.1	47.252N	17.679E	1.9	Németbánya
10	9:35:48.7	48.242N	21.273E	2.4	Tállya
10	9:57:18.7	47.308N	18.329E	1.3	Magyaralmás
10	10:03:48.6	48.610N	20.786E	1.5	Slovakia
10	11:37:07.3	47.845N	19.121E	1.3	Szendehely
10	17:01:35.2	48.567N	20.792E	1.6	Tornanádaska
11	9:02:26.0	46.264N	18.208E	0.4	Kisvaszar
13	7:57:32.3	48.600N	20.713E	1.5	Slovakia
13	9:28:01.5	47.218N	18.267E	0.8	Iszkaszentgyörgy
13	9:38:13.9	46.174N	18.287E	1.0	Zobákpuszt
14	6:53:45.7	47.324N	18.424E	1.4	Zámoly
14	9:21:57.5	48.620N	20.725E	1.5	Slovakia
14	11:52:17.9	48.283N	19.775E	1.6	Slovakia
15	8:02:01.9	48.597N	20.729E	1.4	Slovakia
15	8:09:30.0	48.331N	19.025E	1.8	Slovakia
15	8:48:01.4	46.870N	17.184E	2.3	Vindornya

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15	9:00:58.9	47.915N	20.083E	1.7	Parád
15	9:32:44.2	46.105N	18.084E	1.0	Kővágótőttös
15	12:45:34.3	47.161N	19.241E	1.9	Bugyi (10 km)
16	7:08:53.7	47.298N	18.329E	1.0	Magyaralmás
16	9:27:43.4	48.598N	20.745E	1.4	Slovakia
16	9:46:05.5	47.231N	18.269E	1.1	Iszkaszentgyörgy
16	10:08:00.1	48.246N	21.247E	2.3	Tállya
16	10:24:12.4	47.213N	18.286E	1.0	Iszkaszentgyörgy
16	10:53:18.4	47.325N	18.461E	1.7	Pátka
17	8:24:01.6	46.131N	18.058E	1.2	Hetvehely
17	9:38:40.3	47.180N	18.295E	0.6	Sárkeszi
17	10:38:11.1	47.324N	18.461E	1.6	Pátka
17	11:49:04.7	47.701N	18.547E	1.5	Bajót
18	8:25:09.9	48.594N	20.764E	1.7	Slovakia
20	8:42:03.8	48.618N	20.763E	1.5	Slovakia
20	9:37:59.1	47.197N	18.294E	0.8	Székesfehérvár
20	10:09:13.8	46.998N	22.263E	2.0	Romania
21	7:20:21.3	47.331N	18.423E	1.3	Zámoly
21	8:15:13.4	48.617N	20.730E	1.7	Slovakia
21	8:34:00.8	48.543N	19.366E	1.9	Slovakia
21	12:23:11.5	48.579N	18.809E	1.5	Slovakia
22	7:33:40.2	47.336N	18.479E	1.5	Lovasberény
22	9:06:42.0	47.215N	18.278E	0.9	Iszkaszentgyörgy
22	10:08:03.4	48.416N	19.129E	1.7	Slovakia
22	10:25:23.3	47.512N	18.589E	1.5	Óbarok
23	9:13:26.3	46.169N	18.288E	1.0	Zobákpuszt
24	8:08:28.1	46.110N	18.012E	1.2	Bükkösd
24	8:37:07.9	48.283N	21.277E	2.2	Sima
24	9:22:33.5	47.192N	18.307E	1.0	Székesfehérvár
27	9:57:23.9	47.861N	19.154E	1.7	Nótincs
27	9:57:56.1	47.950N	20.143E	1.8	Szajla
27	12:55:29.4	48.545N	20.796E	1.3	Bódvalenke
28	7:13:30.3	47.932N	19.204E	1.2	Bánk
28	8:32:49.7	48.606N	20.737E	1.5	Slovakia
28	9:10:31.3	47.191N	18.292E	1.1	Sárkeszi
28	9:32:06.4	47.887N	19.758E	1.5	Szurdokpuszti
29	7:51:06.6	46.943N	17.275E	1.3	Sümegeprága
29	7:59:58.3	48.612N	20.758E	1.4	Slovakia
29	8:28:58.0	47.328N	18.451E	1.9	Zámoly
29	8:59:02.5	47.905N	19.402E	1.4	Becske
30	7:43:20.0	47.563N	18.462E	1.2	Tatabánya
30	8:05:29.3	48.310N	21.469E	1.7	Tolcsa
30	8:25:10.5	45.881N	18.385E	1.2	Kisharsány
30	9:51:09.8	48.550N	20.773E	2.0	Komjáti
30	11:25:43.3	47.566N	18.434E	1.2	Tatabánya
31	8:34:00.7	48.492N	18.762E	1.8	Slovakia
31	8:41:03.5	47.303N	17.643E	1.2	Homokbödöge
31	9:54:03.0	46.130N	18.031E	1.0	Hetvehely
31	9:55:36.0	46.132N	17.984E	1.1	Dinnyeberki
31	10:43:22.6	47.197N	18.289E	0.9	Sárkeszi

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03	8:09:30.9	47.294N	17.645E	2.0	Homokbödöge
03	9:48:02.9	48.247N	21.225E	2.1	Tállya
03	11:00:30.0	48.882N	20.931E	1.9	Slovakia
04	8:20:11.3	47.874N	19.843E	1.7	Mátraszentimre
04	9:01:41.0	48.591N	20.781E	1.5	Slovakia
04	9:50:17.2	47.199N	18.303E	0.9	Székesfehérvár
04	10:59:22.0	48.891N	20.974E	2.0	Slovakia
04	11:05:28.3	47.052N	18.028E	1.4	Balatonfűzfő

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05	8:55:48.8	48.585N	20.764E	1.6	Slovakia
05	9:38:37.7	47.230N	18.273E	0.7	Iszkaszentgyörgy
05	10:11:26.9	48.678N	19.931E	1.4	Slovakia
06	5:57:31.8	47.291N	18.351E	1.2	Magyaralmás
06	7:57:34.2	48.521N	19.317E	1.5	Slovakia
06	8:20:00.7	48.595N	20.747E	1.5	Slovakia
06	8:30:53.1	46.022N	18.098E	1.3	Zók
06	8:46:35.0	47.324N	18.449E	1.3	Zámoly
06	10:46:47.3	48.508N	18.674E	1.4	Slovakia
07	7:54:52.0	47.728N	18.497E	1.8	Lábatlan
07	9:28:41.5	47.232N	18.250E	1.0	Iszkaszentgyörgy
07	10:21:59.7	48.608N	20.821E	1.7	Slovakia
07	11:00:30.3	48.875N	20.907E	1.7	Slovakia
08	10:09:55.2	48.051N	19.641E	1.4	Sóshartyán
08	10:11:32.6	48.034N	19.648E	1.3	Lucfalva
10	7:36:08.9	48.616N	20.736E	1.4	Slovakia
11	8:45:37.4	48.604N	20.769E	1.8	Slovakia
11	9:23:26.8	47.313N	18.441E	1.5	Zámoly
11	10:53:46.8	48.342N	19.836E	1.5	Slovakia
11	11:11:09.3	47.100N	18.028E	0.9	Királyszentistván
12	10:00:51.9	47.207N	18.257E	1.0	Csór
12	10:48:51.4	48.251N	21.242E	2.2	Tállya
13	7:55:26.6	47.310N	18.313E	0.8	Söréd
14	6:52:21.9	46.045N	18.344E	1.3	Magyarsarlós
14	7:47:19.0	48.774N	19.333E	1.2	Slovakia
14	9:28:07.9	47.195N	18.288E	0.9	Sárkeszi
17	7:59:31.6	47.322N	17.621E	1.2	Ugod
17	9:53:05.1	48.545N	20.780E	1.4	Komjáti
18	6:32:39.0	47.993N	19.994E	1.1	Mátraballa
18	7:09:23.0	46.864N	17.257E	1.7	Zalaszántó
18	8:50:51.3	48.620N	20.704E	1.5	Slovakia
18	8:59:54.4	47.946N	19.892E	1.6	Dorogháza
18	11:20:43.0	46.835N	17.451E	1.6	Kisapáti
19	8:39:52.0	48.341N	19.003E	1.8	Slovakia
19	9:34:53.5	48.407N	18.465E	1.3	Slovakia
19	9:44:39.0	47.330N	18.435E	1.5	Zámoly
19	10:04:03.0	47.309N	18.462E	1.7	Pátka
20	6:49:38.5	47.572N	18.404E	1.2	Tatabánya
20	6:54:59.6	47.326N	18.459E	2.0	Pátka
21	8:49:12.1	46.181N	18.285E	1.1	Zobákpusztá
21	9:13:45.8	47.214N	18.289E	1.2	Iszkaszentgyörgy
24	8:29:46.2	46.132N	18.059E	1.2	Hetvehely
24	8:38:40.1	48.613N	20.741E	1.5	Slovakia
24	8:58:03.0	46.161N	18.314E	1.1	Zobákpusztá
24	9:16:26.3	47.238N	18.239E	0.8	Iszkaszentgyörgy
24	10:30:12.4	47.820N	19.082E	1.3	Verőce
25	7:17:53.0	47.295N	17.651E	1.5	Homokbödöge
25	7:32:56.5	47.863N	19.149E	1.1	Nőtincs
25	8:28:52.0	47.906N	19.414E	2.1	Becske
25	11:41:30.2	48.609N	20.754E	1.5	Slovakia
26	7:16:29.9	47.229N	18.275E	0.8	Iszkaszentgyörgy
26	8:55:09.1	48.340N	18.545E	1.5	Slovakia
26	9:09:35.2	48.606N	20.625E	1.4	Slovakia
26	11:38:36.3	47.322N	18.447E	1.7	Zámoly
27	7:29:14.4	46.156N	18.311E	0.9	Vasas
27	7:42:07.7	46.139N	18.044E	1.2	Hetvehely
27	8:02:43.1	47.209N	18.277E	1.1	Iszkaszentgyörgy
27	9:05:05.3	47.543N	18.499E	1.3	Szárliget
27	9:49:06.4	48.609N	20.559E	1.4	Slovakia
27	12:59:01.9	47.104N	19.348E	1.7	Tatárszentgyörgy

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27	13:18:42.2	47.082N	19.435E	1.8	Tatárszentgyörgy
27	13:35:38.7	47.078N	19.416E	1.5	Tatárszentgyörgy
28	11:01:40.2	47.327N	18.434E	1.8	Zámoly

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01	7:36:39.6	47.200N	18.295E	1.1	Székesfehérvár
01	8:00:49.6	48.275N	21.277E	2.2	Sima
01	8:19:52.4	48.655N	18.605E	1.2	Slovakia
02	7:12:04.0	48.566N	20.693E	1.5	Bódvaszilas
02	7:39:00.0	47.293N	18.334E	0.3	Magyaralmás
02	7:46:18.2	47.292N	18.324E	1.1	Magyaralmás
02	7:54:28.7	47.856N	19.138E	1.6	Szendehely
02	9:09:00.9	47.837N	19.875E	1.1	Gyöngyösoroszi
02	9:25:47.8	47.210N	18.284E	0.9	Iszkaszentgyörgy
03	5:43:57.9	47.803N	19.954E	1.2	Gyöngyössolymos
03	7:56:18.7	47.057N	18.093E	1.0	Balatonkenese
03	8:25:30.0	47.304N	18.462E	1.9	Pátka
03	8:38:21.9	47.252N	18.252E	0.6	Kincsesbánya
03	8:57:09.6	48.540N	19.341E	1.8	Slovakia
04	6:07:19.4	47.336N	18.460E	1.5	Lovasberény
04	7:43:36.5	47.354N	18.503E	2.2	Lovasberény
04	7:57:39.1	48.230N	21.242E	2.3	Táallya
04	8:01:19.7	48.240N	18.768E	1.9	Slovakia
04	8:03:53.7	48.571N	20.761E	1.4	Tornanádaska
04	8:26:53.4	46.177N	18.285E	1.2	Zobákpuszt
04	9:11:45.2	47.212N	18.276E	1.0	Iszkaszentgyörgy
04	13:10:15.9	46.792N	17.330E	1.5	Keszthely
04	17:49:51.2	48.550N	20.839E	1.8	Hidvégdárdó
05	7:04:42.9	47.514N	18.612E	1.6	Bicske
05	7:39:15.9	47.318N	17.657E	1.8	Bakonykoppány
05	7:41:49.9	47.109N	18.004E	1.0	Litér
05	7:50:45.6	48.241N	21.256E	2.0	Táallya
06	8:49:32.3	46.210N	18.236E	1.2	Komló
08	8:09:50.8	46.066N	18.061E	1.4	Boda
08	8:28:29.3	48.569N	20.720E	1.3	Komjáti
08	8:49:48.6	47.873N	18.839E	1.3	Márianosztra
09	6:24:22.3	47.497N	18.634E	1.1	Bicske
09	7:29:07.8	47.799N	19.066E	1.4	Verőce
09	8:53:36.6	47.878N	19.184E	1.1	Felsőpetény
09	9:29:36.8	47.203N	18.289E	1.1	Csór
10	6:29:42.7	47.301N	18.330E	1.3	Magyaralmás
10	7:31:54.0	45.856N	18.407E	1.2	Nagyharsány
11	6:24:05.8	48.160N	21.323E	1.7	Bodrogkeresztúr
11	8:36:47.1	47.200N	18.259E	0.8	Csór
11	9:18:33.8	46.994N	22.244E	2.0	Romania
11	9:20:27.5	48.589N	20.764E	1.1	Slovakia
12	7:12:00.1	47.334N	18.458E	1.5	Lovasberény
12	7:45:12.6	47.904N	19.412E	1.6	Becske
12	9:06:48.4	47.049N	17.766E	2.0	Tótvázsony
15	8:20:22.1	47.514N	18.572E	1.5	Nagyegyháza
16	7:44:41.5	47.671N	18.527E	1.9	Héreg
16	10:36:48.0	47.301N	18.343E	1.4	Magyaralmás
17	6:31:48.5	47.353N	18.433E	1.9	Gánt
17	6:42:37.4	47.303N	17.656E	1.5	Bakonykoppány
17	7:15:30.3	48.704N	18.858E	0.7	Slovakia
17	8:10:31.0	48.205N	21.217E	2.4	Rátka
17	8:13:40.0	48.342N	21.571E	1.6	Károlyfalva
17	9:05:25.3	48.565N	20.719E	1.3	Komjáti
18	7:12:05.5	48.569N	19.361E	1.4	Slovakia
18	7:24:53.0	46.129N	18.048E	1.0	Hetvehely

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18	9:18:34.7	46.951N	22.247E	1.9	Romania
18	10:10:49.9	47.863N	19.160E	1.4	Ósagárd
19	8:13:39.7	47.194N	18.311E	1.2	Székesfehérvár
19	8:31:40.3	48.237N	21.285E	2.1	Tállya
22	7:12:37.8	47.951N	20.064E	1.7	Mátraderecske
22	7:28:46.1	48.312N	18.922E	1.6	Slovakia
22	9:29:25.0	48.838N	20.083E	1.5	Slovakia
22	10:46:17.4	47.326N	18.439E	1.7	Zámoly
23	8:10:51.8	45.855N	18.409E	1.3	Nagyharsány
24	5:53:35.4	47.883N	19.397E	1.2	Bercel
24	7:23:01.3	47.323N	18.419E	1.6	Zámoly
24	9:20:10.5	47.220N	18.228E	0.7	Csór
25	8:29:33.7	48.446N	19.122E	1.6	Slovakia
25	8:51:41.7	47.870N	19.181E	1.6	Ósagárd
27	6:29:07.8	46.110N	18.043E	1.3	Bükkösd
29	7:36:59.3	47.072N	17.857E	2.2	Nemesvámos
29	10:29:00.3	47.085N	17.890E	1.5	Veszprém
30	9:07:34.1	47.187N	18.308E	1.3	Székesfehérvár
30	9:32:34.3	48.604N	20.736E	1.4	Slovakia
31	6:46:21.4	47.332N	18.465E	2.0	Lovasberény
31	6:47:09.6	47.411N	18.344E	1.2	Gánt
31	8:17:47.7	47.335N	18.397E	2.0	Zámoly
31	10:01:40.0	47.177N	18.296E	1.3	Sárkeszi
31	10:30:55.9	47.390N	18.451E	1.3	Csákvár
31	11:04:53.5	48.525N	20.799E	1.5	Bódvalenke

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01	7:14:50.0	47.197N	18.214E	1.0	Csór
01	7:23:08.4	47.175N	18.223E	1.2	Csór
01	8:11:52.8	48.576N	20.738E	1.2	Tornanádaska
01	12:14:16.8	48.250N	21.255E	1.8	Tállya
02	7:54:52.7	48.287N	21.517E	2.1	Bodrogolaszi
02	8:35:17.9	48.361N	19.854E	1.5	Slovakia
02	8:44:49.0	46.184N	18.279E	1.1	Zobákpusztá
02	9:38:58.8	46.122N	18.084E	1.8	Abaliget
02	10:28:44.7	47.188N	18.306E	2.0	Székesfehérvár
02	12:14:49.5	48.324N	21.543E	1.6	Hercegkút
05	8:09:43.2	47.906N	19.414E	1.7	Becske
05	9:51:57.5	48.571N	20.385E	1.7	Slovakia
06	8:12:29.8	48.604N	20.753E	1.3	Slovakia
06	11:04:22.5	47.840N	20.151E	1.6	Kisnána
07	8:16:20.2	47.784N	19.032E	1.8	Dunabogdány
07	8:37:37.5	48.615N	20.741E	1.4	Slovakia
07	9:51:29.3	48.597N	20.877E	1.4	Slovakia
08	5:57:18.3	47.865N	19.986E	1.3	Mátraháza
08	6:50:58.0	47.360N	18.424E	1.5	Gánt
08	11:19:38.8	47.858N	19.140E	1.5	Nőtincs
09	8:17:45.0	46.098N	18.054E	1.3	Bakonya
09	8:51:31.8	48.559N	20.767E	1.8	Tornanádaska
12	6:28:02.7	47.292N	18.310E	0.9	Magyaralmás
12	7:22:41.7	47.303N	17.685E	2.0	Bakonykoppány
12	9:26:45.9	48.373N	19.860E	1.5	Slovakia
13	8:54:00.9	48.604N	20.749E	1.4	Slovakia
13	8:55:25.0	48.239N	21.240E	1.9	Tállya
13	9:01:40.3	47.200N	18.299E	0.6	Székesfehérvár
13	10:58:05.1	47.109N	17.990E	1.6	Litér
14	10:04:05.2	47.267N	18.261E	0.9	Kincsesbánya
14	10:27:44.3	48.884N	20.505E	1.5	Slovakia
14	10:40:02.8	48.756N	20.402E	1.2	Slovakia
16	6:11:10.4	47.872N	19.387E	1.5	Bercel

Hypocenter Parameters

Földrengés paraméterek

16	7:29:56.5	47.852N	19.118E	1.5	Szendehely
16	8:21:14.3	47.008N	22.326E	1.6	Romania
16	8:29:50.2	48.221N	21.251E	2.7	Táallya
16	8:41:53.0	46.084N	18.083E	1.3	Kővágótóttós
16	10:00:58.6	47.565N	16.354E	1.4	Austria
19	7:49:24.6	48.699N	18.665E	1.3	Slovakia
21	8:21:42.8	47.850N	19.141E	1.8	Szendehely
21	8:31:43.8	47.114N	17.992E	1.5	Litér
21	10:33:37.4	48.472N	19.549E	1.6	Slovakia
22	7:38:42.2	47.319N	18.420E	0.7	Zámoly
22	9:39:29.3	47.194N	18.275E	0.8	Csór
23	9:25:53.2	48.213N	21.274E	2.5	Mád
24	8:55:55.3	48.035N	19.644E	1.4	Lucfalva
26	8:17:18.6	47.336N	18.444E	1.2	Zámoly
26	9:14:06.3	48.637N	20.851E	1.7	Slovakia
26	9:14:43.7	48.585N	20.785E	1.7	Slovakia
27	8:09:37.8	47.843N	19.874E	1.6	Gyöngyösoroszi
27	9:13:08.7	48.588N	20.743E	1.5	Slovakia
27	9:53:55.2	47.208N	18.293E	0.7	Moha
27	11:36:28.1	48.584N	20.721E	1.6	Slovakia
28	8:57:36.8	48.359N	19.823E	1.7	Slovakia
28	9:49:35.8	47.236N	18.330E	0.9	Moha
28	10:03:21.1	47.872N	19.135E	1.6	Nótincs
29	7:47:52.4	47.300N	18.429E	1.1	Zámoly
29	8:22:25.6	46.126N	18.060E	1.3	Hetvehely
29	8:33:53.1	48.235N	21.244E	2.0	Táallya
29	8:54:36.1	46.167N	18.288E	0.9	Zobákpuszt
30	6:06:12.5	47.188N	18.199E	0.9	Csór
30	7:43:18.0	47.083N	17.902E	1.3	Veszprém
30	7:47:05.3	47.860N	19.103E	1.1	Szendehely
30	7:56:52.5	47.546N	18.491E	1.1	Szárlliget

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02	6:51:21.5	47.966N	19.446E	1.7	Terény
02	8:37:36.2	47.093N	18.062E	1.4	Vilonya
02	11:00:31.6	48.637N	20.139E	1.9	Slovakia
03	8:43:35.7	48.600N	20.747E	1.6	Slovakia
04	7:52:00.3	48.595N	20.768E	1.5	Slovakia
04	8:12:20.1	47.873N	19.148E	1.6	Nótincs
04	8:46:45.1	47.109N	17.955E	1.8	Kádárta
04	11:04:55.2	47.228N	18.241E	0.8	Iszkaszentgyörgy
05	6:19:02.5	47.320N	18.423E	1.7	Zámoly
05	7:19:10.7	48.074N	20.667E	1.2	Bükkszentlászló
05	7:28:00.6	48.585N	20.759E	1.6	Slovakia
05	9:05:34.7	47.323N	18.450E	2.0	Zámoly
05	9:07:53.5	48.646N	19.936E	1.7	Slovakia
05	9:16:07.5	47.745N	18.704E	1.2	Dorog
05	9:44:25.1	47.196N	18.289E	1.2	Sárkeszi
06	7:18:17.8	48.165N	21.229E	2.4	Szerencs
06	11:04:21.2	48.375N	19.862E	1.8	Slovakia
07	10:51:05.6	48.025N	19.663E	1.3	Lucfalva
07	11:11:48.7	48.040N	19.659E	1.2	Lucfalva
09	6:52:35.7	48.100N	21.369E	1.7	Tokaj
09	8:57:08.1	46.197N	18.280E	1.2	Komló
10	7:34:42.3	47.269N	17.617E	2.0	Nagytevel
10	9:41:50.2	47.240N	18.254E	0.5	Iszkaszentgyörgy
10	14:25:58.5	47.120N	19.341E	1.8	Örkény
11	8:18:41.7	48.611N	20.770E	1.7	Slovakia
11	8:30:13.1	47.928N	20.113E	1.9	Recsk
11	11:10:06.2	47.197N	18.277E	1.0	Csór

Földrengés paraméterek

Hypocenter Parameters

12	7:07:38.6	47.346N	18.446E	1.9	Gánt
12	8:12:52.1	46.119N	18.070E	1.1	Abaliget
12	9:04:50.1	48.570N	20.756E	1.6	Tornanádaska
12	9:13:28.9	48.327N	21.228E	2.0	Boldogkőújfalu
12	9:52:21.6	47.216N	18.274E	1.1	Iszcaszentgyörgy
12	9:58:15.3	48.389N	18.588E	1.8	Slovakia
13	9:59:43.2	47.561N	18.589E	1.8	Gyermely
14	9:55:46.0	47.318N	16.344E	2.0	Austria
16	8:59:02.3	46.848N	17.310E	2.1	Vállus
16	9:22:32.3	48.366N	19.851E	1.5	Slovakia
16	9:23:39.5	47.242N	18.225E	0.8	Bakonykúti
17	9:17:37.8	47.214N	18.290E	1.0	Iszcaszentgyörgy
17	10:21:58.1	47.329N	18.412E	2.0	Zámoly
17	10:39:36.6	47.336N	18.458E	1.8	Lovasberény
18	7:48:39.1	46.099N	18.037E	1.2	Bükkösd
18	9:04:09.0	47.200N	18.275E	1.0	Csór
18	9:18:48.4	47.192N	18.295E	1.0	Sárkeszi
19	6:31:33.3	47.192N	18.163E	0.9	Pétfürdő
19	6:33:43.8	47.190N	18.191E	1.0	Csór
19	8:23:39.8	47.904N	19.412E	1.9	Bercel
20	6:40:04.2	48.050N	20.686E	1.2	Kisgyőr
20	9:53:46.7	48.671N	20.713E	1.7	Slovakia
21	8:46:40.0	46.170N	18.301E	1.0	Zobákpusztá
24	8:32:23.0	45.861N	18.417E	1.3	Villány
24	8:51:25.6	46.116N	18.017E	1.2	Bükkösd
24	9:38:55.2	48.370N	19.808E	1.8	Slovakia
24	11:06:29.8	47.201N	18.286E	0.7	Csór
24	13:58:41.9	48.535N	20.746E	1.8	Bódivaszipas
25	6:31:48.9	47.897N	19.423E	1.8	Bercel
25	9:03:00.5	47.845N	19.057E	1.8	Verőce
25	9:13:32.7	45.723N	17.267E	1.9	Croatia
25	9:31:14.1	47.213N	18.267E	0.9	Iszcaszentgyörgy
25	9:58:00.4	47.085N	17.966E	1.5	Litér
26	8:49:21.5	48.609N	20.766E	1.5	Slovakia
26	10:14:37.7	48.645N	21.383E	2.2	Slovakia
26	11:09:35.9	47.333N	18.451E	1.9	Zámoly
27	11:06:01.2	48.199N	21.211E	2.1	Ond
28	8:32:19.7	46.140N	18.320E	0.9	Vasas
30	7:32:18.8	47.909N	19.410E	1.9	Becske
30	9:23:40.2	48.600N	20.722E	1.6	Slovakia
30	10:47:43.2	47.208N	18.303E	0.5	Székesfehérvár

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01	8:00:36.8	48.000N	20.354E	1.4	Szarvaskő
02	6:25:56.3	47.300N	18.328E	1.0	Magyaralmás
02	7:30:16.0	47.339N	18.432E	1.5	Zámoly
02	10:05:33.5	48.604N	20.770E	1.6	Slovakia
03	8:32:00.1	48.251N	18.796E	2.2	Slovakia
03	8:35:57.7	46.233N	18.222E	1.2	Mecsekpölöske
04	7:43:06.9	48.110N	21.336E	1.6	Tarcal
04	8:23:25.1	48.588N	20.762E	1.8	Slovakia
04	9:57:50.0	47.185N	18.301E	0.9	Sárkeszi
04	10:08:25.2	47.594N	16.343E	1.5	Austria
04	11:13:23.1	48.230N	21.247E	2.1	Tállya
07	11:08:54.0	47.888N	19.184E	1.4	Felsőpetény
08	7:09:27.2	47.300N	18.328E	0.9	Magyaralmás
08	9:22:31.0	48.589N	20.717E	1.5	Slovakia
08	9:41:35.0	47.201N	18.292E	0.8	Székesfehérvár
09	8:03:44.0	47.323N	18.428E	1.7	Zámoly
09	9:30:23.3	47.193N	18.297E	0.7	Székesfehérvár

Hypocenter Parameters

Földrengés paraméterek

09	10:48:14.3	48.305N	21.170E	1.8	Gibárt
10	7:02:24.5	47.183N	18.201E	0.8	Csór
10	8:16:47.1	46.851N	17.290E	2.1	Vállus
10	8:44:32.1	46.175N	18.306E	1.2	Zobákpuszt
10	9:12:58.0	48.573N	20.795E	1.5	Tornanádaska
10	9:27:13.7	47.331N	18.448E	1.8	Zámoly
10	9:36:44.3	47.202N	18.278E	1.0	Csór
11	9:59:13.2	46.815N	17.310E	2.2	Vállus
14	7:12:13.8	47.583N	18.484E	1.5	Vérttestolna
14	10:03:44.7	48.583N	20.789E	1.5	Tornanádaska
14	10:05:27.7	47.858N	19.153E	1.6	Ősagárd
15	7:57:46.0	47.167N	17.747E	1.5	Herend
15	8:48:09.0	47.206N	18.299E	1.2	Székesfehérvár
15	9:41:32.6	47.231N	18.247E	0.8	Iszkaszentgyörgy
15	9:42:26.1	47.973N	20.049E	1.4	Mátraballa
15	9:45:58.7	48.370N	19.820E	1.3	Slovakia
16	7:05:52.4	47.341N	18.434E	1.5	Zámoly
16	8:25:16.8	47.307N	18.450E	1.8	Pátka
16	8:37:36.2	46.136N	18.044E	1.5	Hetvehely
16	8:53:04.7	45.914N	18.347E	1.0	Vokány
16	9:01:46.7	48.548N	20.745E	1.3	Komjáti
16	9:59:49.7	46.977N	22.318E	1.7	Romania
16	10:43:09.0	47.049N	18.354E	1.0	Tác
17	8:36:42.4	46.178N	18.292E	1.3	Zobákpuszt
18	8:43:18.4	48.577N	20.768E	1.7	Tornanádaska
18	9:16:52.9	47.244N	18.245E	0.8	Iszkaszentgyörgy
18	9:59:43.1	47.534N	18.530E	1.6	Nagyegyháza
21	8:49:13.0	47.734N	18.965E	1.5	Pilisszentlászló
21	8:52:03.6	48.567N	20.763E	1.8	Tornanádaska
21	9:13:22.9	46.157N	18.302E	1.3	Vasas
21	9:14:11.0	46.111N	18.062E	1.1	Bakonya
22	7:48:41.2	45.862N	18.404E	1.2	Nagyharsány
22	9:04:00.1	47.985N	20.412E	1.6	Felsőtárkány
22	9:47:51.9	48.211N	21.231E	2.2	Rátka
22	10:04:19.9	47.102N	17.963E	1.2	Kádárta
23	9:50:11.7	48.582N	20.767E	1.7	Slovakia
24	8:25:30.9	47.676N	18.519E	1.8	Héreg
24	14:30:42.1	47.137N	19.305E	1.9	Örkény
25	9:07:47.0	47.415N	18.712E	1.5	Pusztazámor
25	9:36:38.2	47.222N	18.286E	0.8	Iszkaszentgyörgy
26	7:06:15.9	48.402N	18.653E	2.0	Slovakia
28	8:13:03.7	47.359N	18.406E	2.0	Gánt
28	10:33:20.2	47.194N	18.286E	1.1	Sárkeszi
28	12:27:58.3	46.117N	18.075E	1.4	Abaliget
29	7:34:52.0	47.293N	18.322E	1.0	Magyaralmás
29	9:30:14.9	47.303N	18.451E	1.8	Pátka
29	10:08:07.7	48.718N	19.941E	1.4	Slovakia
29	11:12:24.3	48.550N	20.770E	1.5	Komjáti
30	10:31:01.5	47.714N	18.522E	1.9	Lábatlan
30	12:18:21.1	48.234N	21.243E	2.5	Tállya
31	9:34:13.5	47.078N	17.855E	1.5	Nemesvámos
31	9:58:28.8	48.181N	19.840E	1.6	Slovakia
31	10:16:58.3	47.926N	19.395E	1.6	Becske
31	10:18:55.8	46.149N	18.294E	1.0	Vasas

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02	9:34:27.1	46.187N	18.288E	1.1	Zobákpuszt
04	9:15:07.1	48.576N	20.760E	1.6	Tornanádaska
04	9:48:12.2	47.218N	18.303E	1.1	Moha
05	10:38:14.8	48.350N	19.865E	1.7	Slovakia

Földrengés paraméterek

Hypocenter Parameters

06	9:26:28.5	48.588N	20.747E	1.6	Slovakia
06	11:02:07.6	46.129N	18.077E	1.0	Abaliget
07	10:47:41.1	47.213N	18.265E	0.6	Iszkaszentgyörgy
07	11:12:13.3	46.807N	17.302E	1.6	Keszthely
07	13:36:40.2	48.480N	20.777E	1.4	Martonyi
08	9:09:44.3	48.568N	20.743E	1.7	Komjáti
08	9:47:16.4	47.213N	18.281E	1.0	Iszkaszentgyörgy
08	9:57:24.5	48.178N	21.133E	2.3	Legyesbénye
08	12:01:38.3	47.523N	18.419E	1.4	Vértessomló
11	8:48:44.7	47.329N	18.426E	1.4	Zámoly
11	8:50:02.0	48.130N	21.359E	1.7	Tarcal
12	7:32:43.6	47.107N	17.892E	1.4	Veszprém
12	9:19:08.5	46.173N	18.292E	1.1	Zobákpuszt
12	9:32:59.6	48.512N	20.769E	1.5	Tornaszentandrás
13	8:54:07.1	46.122N	18.038E	1.5	Bükkösd
13	11:19:26.3	47.847N	19.128E	1.9	Szendehely
14	8:26:31.9	47.285N	18.417E	1.3	Zámoly
14	8:39:15.2	48.606N	20.749E	1.5	Slovakia
14	8:41:03.3	47.851N	19.118E	1.5	Szendehely
14	8:59:15.8	45.839N	18.422E	1.6	Nagyharsány
14	10:04:59.5	47.870N	19.401E	1.6	Bercel
14	10:32:11.6	47.188N	18.307E	0.6	Székesfehérvár
14	10:54:18.2	48.600N	20.805E	1.7	Slovakia
14	12:18:57.6	48.237N	21.230E	2.1	Tállya
15	10:01:06.1	47.398N	18.371E	1.4	Gánt
18	10:53:16.4	47.963N	20.044E	1.8	Mátraballa
18	11:39:25.7	47.183N	18.214E	0.8	Csór
18	13:28:11.6	47.869N	20.158E	1.6	Tarnaszentmária
18	14:38:58.7	47.084N	19.403E	1.6	Tatárszentgyörgy
19	9:22:54.4	48.585N	20.799E	1.3	Tornanádaska
19	10:16:09.0	47.940N	20.440E	1.4	Noszvaj
19	13:28:53.7	47.074N	19.430E	1.6	Tatárszentgyörgy
20	8:04:41.5	47.325N	18.450E	1.9	Zámoly
20	8:07:21.1	48.263N	21.211E	1.8	Abaújszántó
20	8:34:21.0	46.078N	18.121E	1.7	Cserkút
20	10:50:08.7	48.596N	20.730E	1.6	Slovakia
21	7:30:45.5	47.295N	18.334E	0.8	Magyaralmás
21	10:30:54.3	48.240N	21.214E	2.3	Tállya
21	12:30:44.6	48.121N	18.996E	2.0	Slovakia
22	9:30:46.6	48.099N	21.275E	1.5	Taktabáj
22	10:04:17.3	48.599N	20.782E	1.7	Slovakia
25	9:50:56.5	47.800N	18.989E	1.7	Kisoroszi
26	10:07:43.4	46.175N	18.286E	1.5	Zobákpuszt
26	11:33:03.1	48.584N	20.769E	1.5	Slovakia
27	8:39:10.4	47.286N	18.384E	2.1	Zámoly
27	8:42:08.7	47.846N	19.083E	1.9	Szendehely
28	8:32:05.7	46.971N	17.605E	1.9	Vigántpetend
28	11:43:41.8	48.182N	21.162E	1.9	Szerencs
28	12:10:02.6	48.193N	21.289E	2.1	Mád
29	9:42:37.9	47.687N	18.553E	1.7	Nagysáp
30	10:14:58.2	46.174N	18.296E	1.1	Zobákpuszt

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02	10:00:16.3	48.601N	20.728E	1.8	Slovakia
02	11:40:02.9	47.750N	19.047E	1.8	Tahitótfalu
03	9:21:51.9	46.103N	18.039E	1.5	Bükkösd
03	9:53:29.0	47.196N	18.286E	0.8	Sárkeszi
03	9:58:03.2	48.579N	20.715E	1.7	Slovakia
04	10:29:20.6	48.573N	20.771E	1.8	Tornanádaska
04	10:43:27.7	47.869N	19.176E	1.4	Ósagárd

Hypocenter Parameters

Földrengés paraméterek

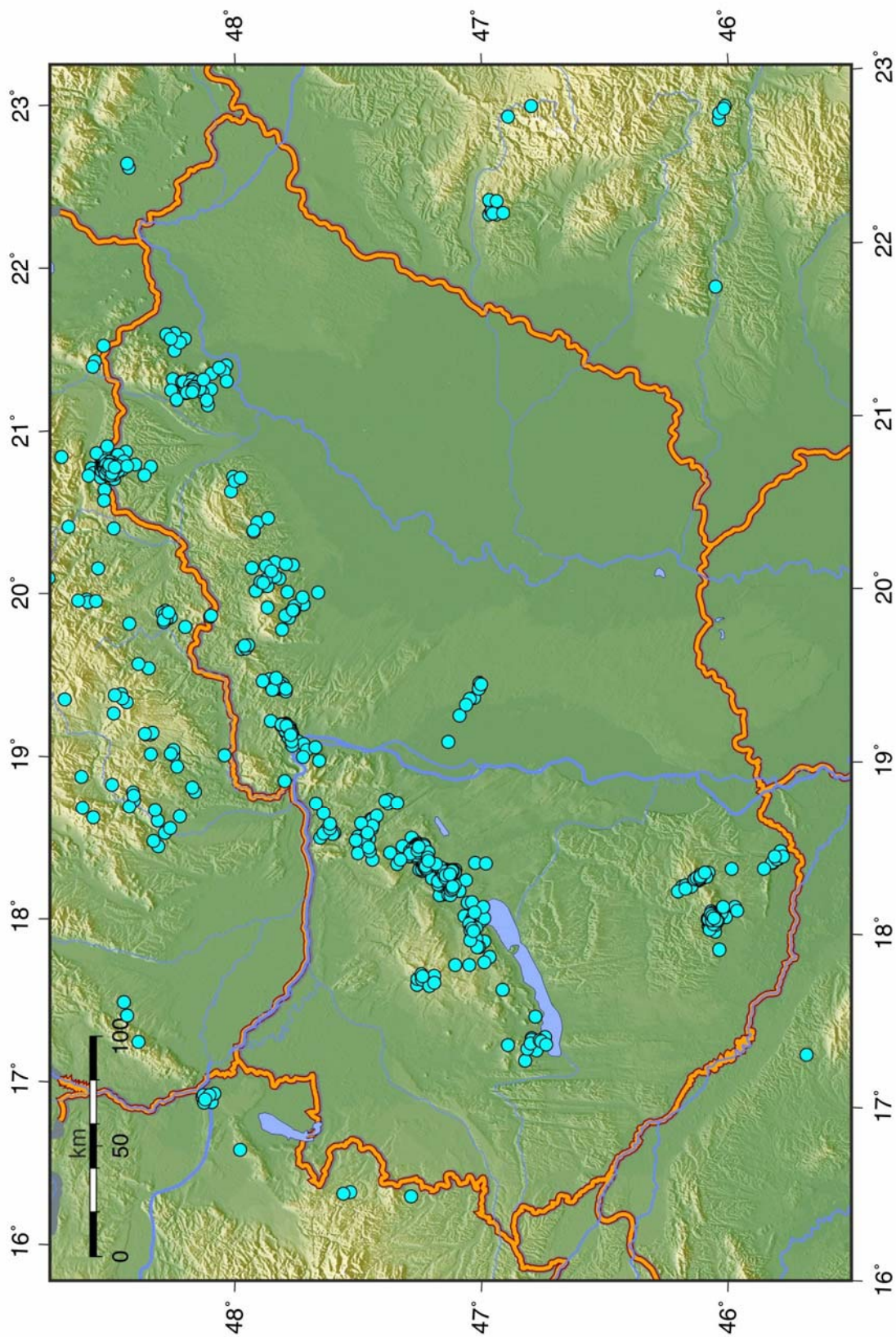
04	13:23:40.5	46.788N	17.285E	1.7	Keszthely	
05	8:42:04.9	45.870N	18.419E	1.2	Villány	
05	10:49:11.2	48.858N	20.529E	2.0	Slovakia	
05	11:22:55.0	48.490N	18.743E	1.6	Slovakia	
05	13:14:09.3	47.911N	19.464E	1.7	Szanda	
06	7:50:05.2	47.254N	18.347E	0.7	Sárkeresztes	
09	10:05:02.6	48.593N	20.751E	1.7	Slovakia	
09	12:16:52.3	48.008N	20.134E	1.5	Pétervására	
10	9:42:13.8	46.155N	18.320E	1.1	Vasas	
10	10:36:33.0	48.586N	20.760E	1.9	Slovakia	
11	8:20:02.5	47.251N	17.637E	1.5	Németbánya	
11	10:08:38.3	47.851N	19.122E	1.7	Szendehely	
11	10:13:03.4	47.738N	19.981E	1.0	Karácsond	
11	11:38:17.7	48.176N	19.846E	1.9	Somoskő	
12	7:40:47.1	47.299N	17.673E	1.2	Bakonykoppány	
12	9:44:57.9	48.000N	20.364E	1.3	Szarvaskő	
12	10:21:25.9	48.573N	20.726E	1.6	Komjáti	
12	10:25:01.0	47.689N	18.582E	1.9	Nagysáp	
12	12:02:31.7	46.121N	18.063E	1.6	Bükkösd	
12	12:14:58.5	46.114N	18.051E	1.5	Bükkösd	
13	11:33:53.5	47.528N	18.441E	1.4	Vértessomló	
16	10:43:54.4	47.095N	17.947E	1.2	Kádárta	
16	12:04:16.3	48.593N	20.894E	1.5	Slovakia	
17	7:24:35.1	47.285N	18.367E	0.6	Magyaralmás	
17	12:26:15.8	48.574N	19.249E	1.6	Slovakia	
18	10:07:01.6	48.582N	20.783E	1.8	Tornanádaska	
19	8:52:15.1	48.585N	20.779E	1.7	Slovakia	
20	10:11:22.7	48.563N	20.765E	1.5	Tornanádaska	
20	12:21:57.3	48.780N	20.834E	1.8	Slovakia	
23	6:56:30.8	46.036N	22.810E	2.0	Romania07	11:25:28.8
48.237N	21.257E	1.8	Tállya			
07	12:30:11.4	48.369N	19.837E	1.6	Slovakia	
10	10:09:34.3	47.242N	18.274E	0.7	Iszka-szentgyörgy	
10	12:16:58.5	47.588N	18.434E	1.6	Tatabánya	
11	7:45:52.2	47.299N	18.334E	1.2	Magyaralmás	
11	8:47:30.7	47.936N	19.351E	1.1	Magyar-nándor	
11	8:59:37.5	46.092N	22.684E	1.6	Romania	
11	9:28:31.5	48.545N	20.809E	1.4	Bódvalenke	
11	9:50:44.8	47.237N	18.269E	1.3	Iszka-szentgyörgy	
11	16:32:02.8	48.419N	17.279E	2.0	Slovakia	
12	11:01:10.8	48.173N	16.876E	1.8	Austria	
12	11:07:20.9	48.576N	20.799E	1.3	Tornanádaska	
12	13:30:32.8	48.245N	21.244E	2.1	Tállya	
13	8:12:01.3	47.857N	19.150E	1.7	Ősagárd	
13	9:30:02.3	47.113N	18.049E	1.2	Vilonya	
13	10:01:09.4	45.912N	18.335E	1.0	Vokány	
13	10:30:37.0	47.848N	19.136E	1.7	Szendehely	
13	10:48:59.6	48.604N	20.760E	1.7	Slovakia	
13	11:45:23.9	48.550N	20.779E	1.5	Komjáti	
14	8:18:17.7	47.195N	18.163E	1.1	Pétfürdő	
14	8:28:13.5	47.165N	18.213E	0.5	Ősi	
14	8:36:04.0	47.142N	18.107E	0.3	Őskü	
14	11:02:32.0	48.607N	20.753E	1.5	Slovakia	
14	11:05:29.5	46.801N	17.360E	1.5	Balatonederics	
15	10:44:41.5	48.036N	19.628E	1.3	Nagylóc	
15	10:53:11.6	48.045N	19.638E	1.3	Sóshartyán	
17	10:57:23.6	45.866N	18.403E	1.7	Kisharsány	
17	10:59:53.8	46.822N	17.243E	1.6	Cserszegtomaj	
17	11:43:42.9	46.119N	18.054E	1.1	Bükkösd	
18	10:18:16.2	48.591N	20.792E	1.6	Slovakia	

Földrengés paraméterek

18	10:30:58.1	48.118N	18.885E	1.6
18	10:37:41.4	47.599N	18.493E	1.5
18	11:19:07.1	48.632N	20.864E	1.8
19	10:23:53.7	47.856N	19.129E	1.3
19	10:44:19.1	48.588N	20.759E	1.4
19	11:14:45.4	48.617N	20.801E	1.5
19	11:46:23.9	48.700N	19.924E	1.5
20	9:00:53.1	48.525N	20.740E	1.3
21	9:01:50.0	48.604N	20.808E	1.3
28	9:26:08.5	47.867N	19.150E	1.4

Hypocenter Parameters

Slovakia
Tarján
Slovakia
Szendehely
Slovakia
Slovakia
Slovakia
Bódvaszilas
Slovakia
Nőtincs



3.3. ábra A 2019-ben regisztrált robbantások epicentrumai

Figure 3.3. Epicenters of 2019 explosions

FÉSZEKPARAMÉTEREK ÉS FÁZISADATOK

A listában alkalmazott jelek és rövidítések magyarázata:

time:	Az esemény kipattanásának ideje (óra:perc:másodperc; UTC).
ML:	A rengés Richter-féle lokális magnitúdója.
lat:	Az esemény földrajzi szélessége (fok).
lon:	Az esemény földrajzi hosszúsága (fok).
h:	A fészek mélysége (km).
erh:	Horizontális hiba km-ben. ($erh = \sqrt{SDX^2 + SDY^2}$, ahol SDX és SDY az epicentrum földrajzi szélességének és hosszúságának meghatározási hibái.) Ha $erh = ---$, a kevés rendelkezésre álló adat miatt erh nem volt meghatározható.
erz:	A fészekmélység meghatározásának hibája (km). $erz = ---$ azt jelzi, hogy erz nem volt meghatározható a kevés rendelkezésre álló adat miatt.
nr:	A számításnál felhasznált fázisadatok száma. Azonos állomásról származó P és S beérkezések 2 adatnak számítanak.
gap:	Az állomások közötti legnagyobb irányeltérés (fok).
rms:	A számított beérkezési idők átlagnégyzetes hibája (mp). ($rms = \sqrt{\sum R_i^2 / nr}$, ahol R_i az i -edik állomás időhibája (reziduál).)
Locality:	A rengés földrajzi helyének megnevezése, általában a legközelebbi település neve.
Comments:	Az eseménnyel kapcsolatos egyéb közlemény (pl. epicentrális intenzitás).
sta:	Az állomás neve. (L. 2. fejezet.)
dist:	Az állomás távolsága az epicentrumtól (km).
azm:	Az állomás irányszöge az epicentrumból az északi iránytól számítva (fok).
phase:	Fázis azonosító; az első betű a kezdetet jellemzi: e = lassan emelkedő i = hirtelen kitérő; a második és harmadik betű a fázis megnevezése pl. Pn, Pg, Sn, Sg; a negyedik a kitérési irányt jelzi: C=kompreszió/fel, D=dilatáció/le. A *-gal jelzett fázisok nem lettek használva a hypocentrum számításhoz.
hr mn sec:	A fázis beérkezési ideje (óra, perc, másodperc).
res:	Reziduál (másodperc). ($res = T_{obs} - T_{cal}$, ahol T_{obs} a mért, és T_{cal} a számított menetidő.)

Minden rengésnél, ahol elegendő számú első kitérési adat állt rendelkezésre, megkíséreltük a fészekmechanizmus meghatározását. Az ábrákon az alsó félteke sztereografikus képe látható, **P** a maximális, **T** a minimális feszültségtengely iránya. A fészekmechanizmusokat a 3.3. ábra foglalja össze.

PHASE DATA

Key to phase data encoding

time:	Time of occurrence of event in hours, mins and secs (UTC).
ML:	Richter local magnitude of the earthquake.
lat:	Latitude of the event in degrees.
lon:	Longitude of the event in degrees.
h:	Depth of the hypocenter in km.
erh:	Standard error of the epicenter in km. ($erh = \sqrt{SDX^2 + SDY^2}$, where SDX and SDY are the standard errors in latitude and longitude respectively, of the epicenter.) If $erh = ---$, this means that erh could not be computed because of insufficient data.
erz:	Standard error of the focal depth in km. If $erz = ---$, this means that erz could not be computed either because focal depth is fixed in the solution or because of insufficient data.
nr:	Number of station readings used in locating the earthquake. P and S arrivals for the same stations are regarded as 2 readings.
gap:	Largest azimuthal separation in degrees between stations.
rms:	Root mean square error of time residuals in seconds. ($rms = \sqrt{\sum R_i^2 / nr}$, where R_i is the time residual of the i^{th} station.
Locality:	A geographical indication of the epicenter area, usually the nearest settlement.
Comments:	Additional comments about the event, eg. maximum EMS intensity
sta:	Station name. (For details see Chapter 2.)
dist:	Distance from earthquake epicenter to station in km.
azm:	Azimuthal angle between epicenter to station measured from North in degrees.
phase:	Phase identifier; the first letter characterizes onset e = emergent i = impulsive, the second and third indicate the phase eg. Pn, Pg, Sn and Sg, the fourth indicates the polarity C=compression/up D=dilatation/down. Phases signed by * are not used for hypocenter calculaton.
hr mn sec:	Arrival time of the phase from input data.
res:	Residual of the phase in secs. ($res = T_{obs} - T_{cal}$, where T_{obs} is the observed and T_{cal} is the calculated travel time respectively.

Fault plane solutions were attempted for each event where any information for the stress field could be drawn. Stereographic projections of the lower focal hemisphere are shown, **P** and **T** are the main compression and tension axes respectively. Strike, dip and slip values of the nodal planes are also indicated. Calculations were carried out by computer program FPFIT (Reasenbergs and Oppenheimer, 1985). The results are summarized in Fig. 3.3.

Hypocenter Parameters

1.

2019-01-04 time: 9:03:04.54 UTC ML= 1.5
lat: 48.582N lon: 20.747E h= 0.0 km
erh= 1.8km erz= 2.2km
nr= 13 gap= 90 rms=0.51
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	22.2	240	Pg	9:03:09.01	0.51
			Sg	03:11.73	0.14
ABAH	48.4	131	Pg	9:03:12.85	-0.33
			Sg	03:19.12	-0.80
PSZ	97.2	221	Pg	9:03:22.24	0.34
			Sg	03:35.77	0.33
NIE	98.3	341	Pg	9:03:22.10	0.00
LANS	113.1	304	Pg	9:03:24.31	-0.43
KOLS	118.8	71	ePg	9:03:27.30	1.54
A336	135.1	253	Pn	9:03:28.40	-0.02
			Sn	03:46.68	-0.36
VYHS	141.4	266	Pn	9:03:29.20	-0.01
			Sn	03:47.58	-0.87

2.

2019-01-05 time: 7:27:10.24 UTC ML= 2.3
lat: 47.118N lon: 21.211E h= 0.8 km
erh= 1.7km erz= 1.9km
nr= 44 gap= 73 rms=0.93
Locality: Füzesgyarmat
Comments:

sta	dist	azm	phase	hr mn sec	res
SIRR	100.6	160	PgC	7:27:28.41	0.22
			Sg	27:41.10	-1.10
PKSN	105.0	257	Pg	7:27:28.45	-0.54
			Sg	27:43.38	-0.25
DRGR	119.9	108	Pg	7:27:31.79	0.15
			Sg	27:47.05	-1.28
ABAH	131.0	1	Pn	7:27:32.77	-0.74
			Sn	27:50.04	-1.62
MESR	132.0	88	PnC	7:27:35.02	1.39
			Sn	27:53.00	1.13
PSZ	133.2	312	Pn	7:27:32.27	-1.51
			Pn	7:27:34.21	-0.18
PKS6	138.1	245	Sn	27:51.62	-1.61
			Pn	7:27:36.45	0.51
TRPA	150.5	42	Sn	27:54.68	-1.30
			PnC	7:27:36.81	0.50
MARR	153.5	109	Sn	27:57.70	1.05
			Pn	7:27:37.21	0.61
PKS7	155.9	267	Pn	27:56.27	-0.90
			Pn	7:27:36.96	0.10
PKB2	157.9	252	Sn	27:57.61	-0.02
			Pn	7:27:37.67	0.40
KECS	161.2	340	Sn	27:57.07	-1.30
			Sn	7:27:58.05	-0.83
PENC	163.6	297	PnC	7:27:37.61	-0.39
SURR	167.1	155	Sn	27:58.10	-1.56
			Pn	7:27:38.87	0.80
PKS2	167.6	245	Sn	27:59.66	-0.12
			Pn	7:27:39.02	0.68
BZS	169.8	169	Sn	28:01.31	1.05
			Pn	7:27:39.72	1.08
PKB3	172.2	243	Sn	28:00.26	-0.54
			Sn	7:28:05.30	2.03
BMR	183.3	70	Pn	7:27:43.65	1.86
PKB5	197.5	253	Sn	7:28:08.92	0.34
A336	207.3	307	Sn	7:28:10.25	-0.19
PKSG	215.6	278	Sn	7:28:09.96	-0.75
KOLS	216.9	21	Sn	7:28:12.52	1.00
MORH	220.5	243	Sn	7:28:12.94	1.33
PKSM	220.9	243	Sn	7:28:14.58	2.06
CSKK	225.0	277	Sn		

Földrengés paraméterek

GZR	226.6	148	PnD	7:27:45.99	0.57
			Sn	28:10.70	-2.16
VYHS	234.6	311	Sn	7:28:15.55	0.90
A339	279.4	286	Sn	7:28:23.49	-1.10
BURA	307.6	80	PnC	7:27:57.41	1.88*
VOIR	350.0	122	PnD	7:28:01.68	0.87*

3.

2019-01-05 time: 7:34:27.29 UTC ML= 1.9
lat: 47.088N lon: 21.129E h= 20.1 km
erh= 3.0km erz= 4.3km
nr= 5 gap=210 rms=0.14
Locality: Füzesgyarmat
Comments:

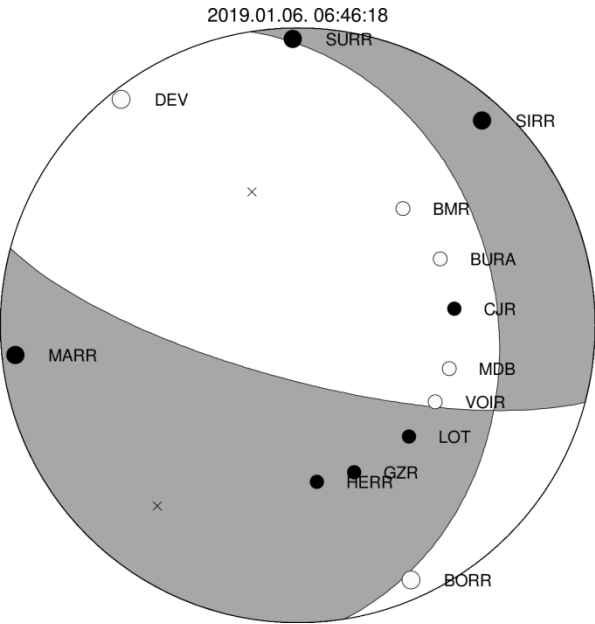
sta	dist	azm	phase	hr mn sec	res
DRGR	124.9	105	Pn	7:34:47.51	0.17
			Sn	35:02.79	-0.18
PSZ	131.0	315	Sn	7:35:04.30	-0.03
ABAH	134.6	4	Pn	7:34:48.42	-0.12
			Sn	35:05.26	0.14

4.

2019-01-06 time: 6:46:18.61 UTC ML= 2.2
lat: 46.600N lon: 22.096E h= 7.3 km
erh= 2.1km erz= 2.0km
nr= 35 gap= 59 rms=1.14
Locality: Romania
Comments:

sta	dist	azm	phase	hr mn sec	res
SIRR	49.9	222	PgC	6:46:28.81	1.19
			Sg	46:34.00	-0.65
DRGR	51.6	66	Pg	6:46:28.01	0.08
			Sg	46:33.75	-1.44
BORR	59.4	336	PgD	6:46:29.85	0.55
			Sg	46:36.80	-0.84
MARR	78.8	84	PgC	6:46:32.75	0.01
			Sg	46:41.80	-1.95
SURR	94.1	179	PgC	6:46:35.93	0.47
			Sg	46:47.10	-1.50
DEV	101.1	142	PgD	6:46:37.13	0.41
			Sg	46:48.60	-2.23
BZS	115.4	199	Pn	6:46:39.10	-0.01
			Sn	46:52.47	-2.62
CJR	115.6	84	PnC	6:46:39.41	0.27
			Sn	46:52.40	-2.74
GZR	144.1	159	PnC	6:46:44.18	1.49
			Sn	47:00.90	-0.56
BMR	159.7	42	PnD	6:46:45.22	0.59
			Sn	47:05.40	0.47
TRPA	173.4	11	Pn	6:46:46.01	-0.33
PKSN	173.5	281	Sn	6:47:06.30	-1.68
ARCR	180.5	73	Pn	6:46:48.45	1.23
			Sn	47:10.89	1.36
LOT	182.2	135	PnC	6:46:49.07	1.64
			Sn	47:10.80	0.89
MDB	183.0	106	PnD	6:46:48.90	1.37
			Sn	47:10.90	0.81
HERR	192.7	173	PnC	6:46:49.59	0.85
			Sn	47:13.80	1.56
ABAH	199.3	341	Pn	6:46:48.74	-0.83
			Sn	47:13.14	-0.58
PSZ	221.9	311	Pn	6:46:51.45	-0.94
BURA	262.4	65	PnD	6:46:58.90	1.47
VOIR	262.7	119	PnD	6:46:59.04	1.57

Földrengés paraméterek

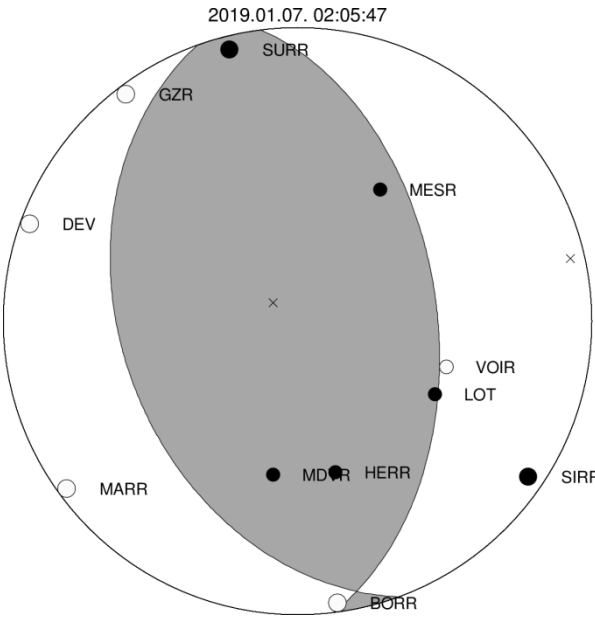


5.

2019-01-07 time: 2:05:47.61 UTC ML= 2.0
lat: 46.109N lon: 21.996E h= 3.3 km
erh= 1.8km erz= 2.3km
nr= 31 gap= 69 rms=1.04
Locality: Romania
Comments:

sta	dist	azm	phase	hr mn sec	res
SIRR	31.3	304	PgC	2:05:54.20	0.96
			Sg	05:57.70	0.07
SURR	40.7	166	PgC	2:05:56.17	1.26
			Sg	06:01.10	0.49
BZS	62.2	208	Pg	2:05:59.37	0.64
			Sg	06:06.99	-0.41
TIM	73.0	235	Sg	2:06:09.70	-1.14
DEV	74.7	110	PgD	2:06:01.27	0.31
			Sg	06:10.50	-0.87
DRGR	93.7	36	Pg	2:06:04.50	0.15
			Sg	06:15.16	-2.25
GZR	100.1	143	PgD	2:06:05.95	0.45
			Sg	06:17.70	-1.76
BANR	104.9	220	Sg	2:06:20.20	-0.78
MARR	106.9	54	PgD	2:06:06.93	0.21
			Sg	06:19.40	-2.22
BORR	110.2	352	PgD	2:06:07.66	0.36
			Sg	06:21.00	-1.66
MESR	136.8	32	PnC	2:06:11.55	0.27
			Sn	06:28.40	-1.34
HERR	140.4	166	PnC	2:06:12.55	0.82
			Sn	06:29.80	-0.74
MDVR	149.2	189	PnC	2:06:14.27	1.44
			Sn	06:31.00	-1.49
LOT	156.3	118	PnC	2:06:14.21	0.50
			Sn	06:33.50	-0.57
BMR	208.1	33	Sn	2:06:45.80	0.24
ARCR	210.8	59	Pn	2:06:23.05	2.55
			Sn	06:48.81	2.66
VOIR	249.0	107	PnD	2:06:26.43	1.16
			Sn	06:54.90	0.26

Hypocenter Parameters



6.

2019-01-07 time: 9:29:16.09 UTC ML= 1.8
lat: 48.516N lon: 20.858E h= 0.0 km
erh= 5.0km erz= 8.4km
nr= 7 gap=115 rms=1.16
Locality: Becskéháza
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	27.8	262	Pg	9:29:21.16	0.11
			Sg	29:24.77	-0.15
ABAH	37.4	131	Pg	9:29:21.23	-1.53
			Sg	29:27.75	-0.21
PSZ	97.7	227	Sg	9:29:48.77	1.62
STHS	104.0	16	ePg	9:29:36.10	1.43
VYHS	149.5	269	Sn	9:30:00.13	-1.65

7.

2019-01-08 time: 1:57:03.32 UTC ML= 1.2
lat: 46.333N lon: 17.590E h= 6.6 km
erh= 2.6km erz=23.3km
nr= 12 gap=150 rms=0.58
Locality: Gige
Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	47.9	125	PgD	1:57:12.21	0.26
			Sg	57:18.82	0.14
PKS9	59.9	62	Sg	1:57:23.62	1.13
BEHE	64.5	284	Sg	1:57:23.32	-0.60
PKSV	71.2	134	Pg	1:57:16.53	0.44
PKB4	80.0	77	Pg	1:57:18.22	0.56
			Sg	57:28.39	-0.45
PKSM	82.2	99	Pg	1:57:18.19	0.15
			Sg	57:28.75	-0.77
MORH	82.3	99	Pg	1:57:18.25	0.18
			Sg	57:28.63	-0.93
PKB5	92.7	72	Sg	1:57:31.92	-0.93

Hypocenter Parameters

8.

2019-01-08 time: 9:06:30.81 UTC ML= 1.9
lat: 48.589N lon: 20.760E h= 0.0 km
erh= 1.9km erz= 2.1km
nr= 12 gap=110 rms=0.61
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.4	240	Pg	9:06:35.46	0.47
			Sg	06:38.12	-0.13
NIE	97.9	341	Pg	9:06:48.96	0.67
			Sg	07:00.96	-0.97
PSZ	98.4	221	Sg	9:07:02.42	0.32
STHS	98.6	21	ePg	9:06:48.40	-0.02
KOLS	117.7	71	Sg	9:07:08.39	0.17
A336	136.2	253	Sn	9:07:12.61	-0.95
TRPA	141.4	111	Pn	9:06:55.64	0.17
			Sn	07:12.76	-1.95
VYHS	142.4	266	Pn	9:06:56.14	0.54
			Sn	07:14.57	-0.37

9.

2019-01-08 time: 9:14:38.86 UTC ML= 1.5
lat: 47.110N lon: 17.747E h= 0.0 km
erh= 7.1km erz= ***km
nr= 9 gap=236 rms=0.76
Locality: Szentgál
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
MPLH	17.1	293	Pg	9:14:41.19	-0.72
			Sg	14:44.75	0.46
PKST	27.4	53	Pg	9:14:44.00	0.25
			Sg	14:48.67	1.10
EGYH	46.4	317	Pg	9:14:47.76	0.61
			Sg	14:53.36	-0.25
CSKK	48.0	54	Sg	9:14:52.38	-1.75
PKSG	58.0	57	Pg	9:14:49.67	0.46
			Sg	14:56.40	-0.88

10.

2019-01-09 time: 10:33:28.80 UTC ML= 0.8
lat: 47.232N lon: 18.240E h= 0.0 km
erh= 1.4km erz= 420km
nr= 8 gap=116 rms=0.31
Locality: Iszkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	14.6	6	Pg	10:33:31.10	-0.31
			Sg	33:33.80	0.35
PKST	15.8	281	Pg	10:33:31.59	-0.04
			Sg	33:34.70	0.87
PKSG	21.1	33	Pg	10:33:32.25	-0.32
			Sg	33:35.53	0.02
NADP	28.8	84	Sg	10:33:38.17	0.22
PKSM	117.5	165	Pg	10:33:49.73	-0.07

11.

2019-01-09 time: 23:43:44.81 UTC ML= 1.1
lat: 47.845N lon: 18.694E h= 17.7 km
erh= 3.6km erz= 2.6km
nr= 11 gap=157 rms=0.72
Locality: Slovakia
Comments:

Földrengés paraméterek

sta	dist	azm	phase	hr mn sec	res
SRO	28.7	263	ePg	23:43:51.70	0.87
A338	31.8	307	Pg	23:43:51.55	0.25
			Sg	43:55.85	-0.52
A336	48.8	28	Pg	23:43:54.84	0.76
			Sg	44:00.58	-0.74
PKSG	55.3	204	Pg	23:43:55.48	0.31
			Sg	44:01.86	-1.39
NADP	65.5	185	S*	23:44:05.78	-0.48
VYHS	73.0	8	P*	23:43:58.81	0.81
			S*	44:07.22	-1.07
EGYH	112.8	245	Pn	23:44:03.26	-0.39

12.

2019-01-10 time: 9:02:56.25 UTC ML= 0.9
lat: 45.846N lon: 18.453E h= 0.0 km
erh= 1.4km erz= 223km
nr= 8 gap=267 rms=0.16
Locality: Villány
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSV	16.3	287	Pg	9:02:59.03	-0.13
			Sg	03:01.36	-0.07
KOVH	38.4	314	Pg	9:03:03.55	0.44
			Sg	03:08.39	-0.06
PKSM	43.2	20	Pg	9:03:03.92	-0.04
			Sg	03:09.95	-0.02
MORH	43.7	20	Pg	9:03:03.97	-0.08
			Sg	03:10.23	0.10

13.

2019-01-10 time: 9:12:51.80 UTC ML= 1.6
lat: 48.615N lon: 20.765E h= 0.0 km
erh= 2.8km erz= 2.3km
nr= 11 gap=168 rms=0.81
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	25.3	235	Pg	9:12:57.04	0.72
			Sg	13:00.01	0.17
ABAH	49.9	135	Pg	9:13:01.35	0.65
			Sg	13:06.90	-0.74
PSZ	100.9	220	Pg	9:13:10.27	0.46
KOLS	116.3	72	Sg	9:13:28.77	-0.01
A336	137.5	252	Sn	9:13:33.39	-1.44
TRPA	142.0	112	Pn	9:13:16.57	0.03
			Sn	13:33.99	-1.85
VYHS	143.1	265	Pn	9:13:17.47	0.80
			Sn	13:34.74	-1.33

14.

2019-01-11 time: 9:08:12.77 UTC ML= 2.1
lat: 48.547N lon: 20.773E h= 0.0 km
erh= 2.0km erz= 3.0km
nr= 10 gap=148 rms=0.44
Locality: Komjáti
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	22.4	252	Pg	9:08:17.24	0.48
			Sg	08:20.07	0.19
ABAH	44.4	129	Pg	9:08:20.43	-0.26
			Sg	08:26.85	-0.03
PSZ	95.6	223	Pg	9:08:30.24	0.39
			Sg	08:42.24	-0.93
NIE	102.6	341	Pg	9:08:31.00	-0.09
A336	136.0	255	Pn	9:08:37.12	0.37

Földrengés paraméterek

VYHS 143.2 268 Pn 9:08:37.57 -0.09
Sn 08:55.60 -1.47

15.

2019-01-11 time: 10:17:42.14 UTC ML= 1.0
lat: 47.175N lon: 18.314E h= 0.0 km
erh= 0.6km erz=80.0km
nr= 6 gap=280 rms=0.05
Locality: Székesfehérvár
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	21.3	349	Pg	10:17:45.95	0.00
			Sg	17:48.98	0.06
PKST	23.2	294	Pg	10:17:46.27	-0.01
			Sg	17:49.46	-0.05
PKSG	24.8	13	Pg	10:17:46.62	0.05
			Sg	17:49.94	-0.09

16.

2019-01-11 time: 22:22:21.96 UTC ML= 1.9
lat: 48.747N lon: 18.819E h= 16.3 km
erh= 5.6km erz= 4.1km
nr= 11 gap=120 rms=0.74
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr mn sec	res
VYHS	28.1	177	Pg	22:22:28.31	0.54
			Sg	22:32.18	-0.11
A336	58.7	167	Pg	22:22:32.29	-0.54
			Sg	22:40.56	-0.75
LANS	65.4	47	Pg	22:22:35.23	1.24
			Sg	22:42.88	-0.50
A338	88.4	203	P*	22:22:38.51	0.88
MORC	147.5	321	Pn	22:22:44.27	-1.03
			Sn	23:03.18	-0.33
CSKK	159.4	195	Pn	22:22:46.14	-0.65
			Sn	23:06.74	0.59

17.

2019-01-11 time: 23:10:15.69 UTC ML= 1.7
lat: 45.820N lon: 17.349E h= 10.0 km
erh= 3.4km erz= 2.9km
nr= 12 gap=103 rms=0.81
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	65.4	63	Pg	23:10:28.18	0.68
			Sg	10:35.93	-0.78
PKSV	70.5	84	Pg	23:10:29.01	0.60
			Sg	10:37.65	-0.69
PKSM	109.1	66	Pn	23:10:34.69	-0.36
			Sn	10:49.17	-0.98
KOGS	109.9	309	Sn	23:10:48.88	-1.45
BLY	119.8	186	Pn	23:10:36.37	-0.01
			Sn	10:52.29	-0.23
PKB4	122.6	52	Sn	23:10:53.49	0.34
CRES	147.1	270	Pn	23:10:41.61	1.83
			Sn	10:58.78	0.21

Hypocenter Parameters

18.

2019-01-12 time: 21:05:16.57 UTC ML= 1.4
lat: 48.659N lon: 19.415E h= 16.3 km
erh= 5.2km erz= 6.0km
nr= 11 gap=117 rms=0.89
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr mn sec	res
VYHS	46.5	247	Pg	21:05:25.70	0.33
			Sg	05:30.82	-1.41
LANS	54.8	4	Pg	21:05:28.01	1.22
			Sg	05:33.94	-0.82
A336	56.4	213	Pg	21:05:27.61	0.55
			Sg	05:34.34	-0.91
KECS	81.4	104	P*	21:05:32.04	0.87
			S*	05:41.43	-1.13
PSZ	89.7	157	P*	21:05:33.24	0.81
			S*	05:44.09	-0.71
NIE	107.1	38	Sn	21:05:48.36	-0.77

19.

2019-01-13 time: 20:27:17.35 UTC ML= 1.0
lat: 47.284N lon: 18.261E h= 10.0 km
erh= 4.7km erz= 2.1km
nr= 12 gap=193 rms=0.64
Locality: Fehérvárcsurgó
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	8.8	360	Pg	20:27:19.51	-0.22
			Sg	27:21.19	-0.40
PKSG	15.5	39	Pg	20:27:20.70	0.06
			Sg	27:22.92	-0.29
PKB5	84.7	155	Pg	20:27:33.51	0.93
			Sg	27:44.63	0.18
PKB4	91.4	163	Sg	20:27:46.55	-0.02
PKB3	119.2	143	Sn	20:27:54.24	0.19
MORH	122.3	166	Pn	20:27:39.69	1.34
			Sn	27:53.77	-0.97
PKSM	122.7	166	Pn	20:27:38.12	-0.28
			Sn	27:53.61	-1.21

20.

2019-01-14 time: 9:19:15.17 UTC ML= 1.5
lat: 45.534N lon: 17.917E h= 16.2 km
erh= 2.5km erz= 1.1km
nr= 9 gap=271 rms=0.24
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	47.3	34	Pg	9:19:24.18	0.07
			Sg	19:31.93	0.85
KOVH	63.3	13	Pg	9:19:26.61	-0.24
			Sg	19:35.68	-0.27
PKSM	94.1	37	P*	9:19:31.79	0.08
			S*	19:44.67	0.06
MORH	94.6	37	P*	9:19:31.80	0.01
			S*	19:44.50	-0.25
KOGS	164.3	308	Sn	9:20:00.75	0.28

Hypocenter Parameters

Földrengés paraméterek

21.

2019-01-14 time: 9:46:49.71 UTC ML= 1.6
lat: 47.541N lon: 18.459E h= 0.0 km
erh= 3.2km erz= 4.3km
nr= 9 gap=241 rms=0.47
Locality: Tatabánya
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	17.4	197	Pg	9:46:52.63	-0.19
			Sg	46:55.40	0.16
CSKK	24.8	217	Pg	9:46:53.70	-0.45
			Sg	46:57.55	-0.05
NADP	33.7	159	Pg	9:46:55.71	-0.02
			Sg	47:00.73	0.31
BUD	43.0	99	Sg	9:47:03.16	-0.22
PKSM	148.4	175	Pn	9:47:16.17	0.92
			Sn	47:31.82	-3.35

22.

2019-01-14 time: 10:29:24.62 UTC ML= 1.1
lat: 47.214N lon: 18.317E h= 0.0 km
erh= 6.4km erz= 722km
nr= 6 gap=178 rms=0.42
Locality: Moha
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	17.2	346	Sg	10:29:29.91	-0.18
PKSG	20.6	16	Pg	10:29:28.32	0.02
			Sg	29:31.19	0.02
MORH	113.7	167	Pg	10:29:45.37	0.44
PKSM	114.1	167	Pg	10:29:45.13	0.14
			Sg	29:59.60	-1.28

23.

2019-01-14 time: 10:42:04.35 UTC ML= 1.6
lat: 48.604N lon: 20.760E h= 0.0 km
erh= 3.1km erz= 3.0km
nr= 6 gap=229 rms=0.37
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.3	236	Pg	10:42:08.94	0.25
			Sg	42:12.06	-0.02
ABAH	49.3	134	Pg	10:42:13.27	0.11
			Sg	42:19.71	-0.31
VYHS	142.6	265	Pn	10:42:29.37	0.21
			Sn	42:47.16	-1.35

24.

2019-01-15 time: 1:08:02.41 UTC ML= 0.4
lat: 47.372N lon: 18.253E h= 2.2 km
erh= 0.4km erz= 0.2km
nr= 7 gap=205 rms=0.04
Locality: Mór
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	1.1	150	PgU	1:08:02.87	0.02
			Sg	08:03.15	-0.04
PKSG	10.6	78	PgD	1:08:04.31	-0.04
			Sg	08:05.92	0.06
PKST	20.8	233	Pg	1:08:06.12	-0.02
			Sg	08:09.09	0.04
NADP	30.3	115	Sg	1:08:12.08	0.00

25.

2019-01-15 time: 6:54:49.09 UTC ML= 2.0
lat: 46.092N lon: 16.368E h= 11.2 km
erh= 1.3km erz= 1.1km
nr= 32 gap=126 rms=0.52
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
PTJ	38.3	236	Pg	6:54:56.15	-0.07
			Sg	55:01.31	-0.47
KOGS	40.6	347	iPg	6:54:56.74	0.13
			iSg	55:02.17	-0.30
ZAG	41.2	225	Pg	6:54:57.17	0.45
			Sg	55:03.71	1.04
BEHE	52.4	37	Pg	6:54:58.93	0.27
			Sg	55:05.92	-0.21
GOLS	58.3	261	iPg	6:55:00.02	0.33
			iSg	55:07.52	-0.44
GCIS	62.6	246	iPg	6:55:00.71	0.26
			eSg	55:08.51	-0.81
DOBS	69.8	275	iPgD	6:55:01.67	-0.04
			iSg	55:10.55	-1.01
CESS	71.3	259	iPg	6:55:02.33	0.35
			iSg	55:11.36	-0.68
CRES	76.6	247	iPg	6:55:02.93	0.01
			iPg	6:55:03.95	-0.08
LEGS	82.9	259	Pn	6:55:09.05	0.19
			Sn	55:24.32	0.03
PERS	113.7	302	Pn	6:55:10.41	0.56
			Sn	55:25.60	-0.45
SOKA	121.6	302	Pn	6:55:10.95	-0.43
			Sn	55:26.89	-1.88
KOVH	133.9	90	Pn	6:55:14.51	1.86
			Sn	55:30.24	-0.79
ARSA	144.1	333	Pn	6:55:14.37	1.28
			Sn	55:31.53	-0.30
OBKA	147.6	288	Pn	6:55:16.17	-0.47
PKSV	147.7	99	Pn	6:55:16.14	-0.53
PKSM	176.1	86	Pn	6:55:18.04	1.07
MORH	176.3	86	Pn	55:38.79	0.07
RONA	178.8	358	Sn		

26.

2019-01-15 time: 6:56:10.57 UTC ML= 1.6
lat: 46.104N lon: 16.378E h= 10.0 km
erh= 1.6km erz= 1.4km
nr= 18 gap=133 rms=0.50
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
KOGS	39.5	346	ePg	6:56:18.29	0.45
			iSg	56:23.57	0.06
PTJ	39.7	235	Pg	6:56:17.54	-0.33
			Sg	56:22.74	-0.83
ZAG	42.7	224	Pg	6:56:18.61	0.22
			Sg	56:24.22	-0.28
BEHE	50.9	37	Sg	6:56:26.12	-0.95
			iPg	6:56:21.94	0.65
GOLS	59.2	260	iPg	56:29.90	0.24
			iSg	56:30.51	-0.59
GCIS	63.8	246	Pn	6:56:22.23	0.13
			iSg	56:30.91	0.42
PERS	113.6	301	Pn	56:46.01	-0.02
			Sn	56:45.44	-2.35*
SOKA	121.6	302	Pn	6:56:31.22	-0.26
			Sn	56:33.68	0.75
KOVH	133.2	91	Pn	56:50.47	0.10
			Sn	6:56:51.72	-0.88
ARSA	143.2	333	Pn		
			Sn		

Földrengés paraméterek

27.

2019-01-15 time: 8:15:18.57 UTC ML= 1.7
lat: 47.335N lon: 18.408E h= 0.0 km
erh= 2.7km erz= ***km
nr= 13 gap= 95 rms=0.96
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	6.4	348	PgU	8:15:19.74	0.02
			Sg	15:20.31	-0.30
CSKK	11.6	285	Pg	8:15:21.26	0.62
			Sg	15:22.87	0.62
NADP	18.1	119	Pg	8:15:23.02	1.22
			Sg	15:25.88	1.57
PKST	29.5	253	Pg	8:15:24.45	0.61
			Sg	15:27.24	-0.72
A336	109.2	24	Sg	8:15:51.45	-1.83
MORH	125.8	172	Pg	8:15:40.58	-0.45
			Sg	15:57.20	-1.35
PKSM	126.2	172	Pg	8:15:41.03	-0.07
			Sg	15:56.78	-1.90

28.

2019-01-15 time: 10:14:09.16 UTC ML= 0.6
lat: 47.209N lon: 18.258E h= 0.0 km
erh= 2.1km erz= 826km
nr= 10 gap=123 rms=0.64
Locality: Csór
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	17.1	1	Pg	10:14:12.40	0.19
			Sg	14:13.66	-0.93
PKST	17.8	288	Pg	10:14:12.67	0.33
			Sg	14:14.44	-0.38
PKSG	22.6	26	Pg	10:14:13.71	0.52
			Sg	14:16.89	0.55
NADP	27.7	79	Sg	10:14:18.70	0.73
BUD	65.4	62	Sg	10:14:28.59	-1.35
MORH	114.3	165	Sg	10:14:44.64	-0.86
PKSM	114.7	165	Sg	10:14:45.91	0.29

29.

2019-01-16 time: 10:26:21.61 UTC ML= 1.9
lat: 48.597N lon: 20.764E h= 0.0 km
erh= 1.6km erz= 2.1km
nr= 16 gap= 91 rms=0.66
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.1	238	Pg	10:26:26.35	0.43
			Sg	26:29.12	-0.16
ABAH	48.5	134	Pg	10:26:30.51	0.23
			Sg	26:37.26	0.22
NIE	97.2	340	Pg	10:26:39.13	0.17
			Sg	26:51.39	-1.11
PSZ	99.3	221	Pg	10:26:39.75	0.41
			Sg	26:52.87	-0.30
KOLS	117.1	71	Pg	10:26:43.21	0.69
			Sg	26:58.34	-0.49
A336	136.8	253	Pn	10:26:46.43	0.73
			Sn	27:03.54	-0.94
TRPA	141.4	112	Pn	10:26:46.43	0.16
			Sn	27:03.61	-1.90
VYHS	142.8	265	Pn	10:26:46.85	0.40
			Sn	27:04.44	-1.38

Hypocenter Parameters

30.

2019-01-17 time: 9:04:06.32 UTC ML= 1.5
lat: 47.359N lon: 18.389E h= 0.0 km
erh= 2.4km erz= 5.5km
nr= 11 gap= 98 rms=0.86
Locality: Gánt
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	3.7	2	PgU	9:04:07.41	0.43
			Sg	04:07.96	0.47
CSKK	9.7	273	Pg	9:04:08.57	0.50
			Sg	04:09.52	0.10
NADP	20.6	123	Sg	9:04:14.13	1.26
			Pg	9:04:12.15	0.64
PKST	29.0	248	Pg	04:15.65	0.09
			Sg	9:04:39.07	-1.40
A336	107.4	25	Sg	9:04:45.72	-1.46
MORH	128.5	171	Sg	9:04:45.75	-1.56
PKSM	128.9	171	Sg	9:04:47.04	-0.78
VYHS	130.6	15	Sn		

31.

2019-01-17 time: 9:18:45.20 UTC ML= 1.5
lat: 47.320N lon: 18.392E h= 0.0 km
erh= 2.3km erz= 827km
nr= 10 gap=113 rms=0.66
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	8.0	359	PgU	9:18:46.07	-0.55
			Sg	18:46.67	-1.06
CSKK	11.1	296	Pg	9:18:47.51	0.34
			Sg	18:49.13	0.42
NADP	18.4	112	Sg	9:18:52.46	1.41
PKST	27.9	256	Pg	9:18:50.55	0.37
			Sg	18:53.56	-0.51
MORH	124.3	171	Sg	9:19:24.12	-0.57
PKSM	124.7	171	Pg	9:19:08.02	0.56
			Sg	19:24.22	-0.60

32.

2019-01-17 time: 10:18:22.18 UTC ML= 1.2
lat: 47.209N lon: 18.287E h= 0.0 km
erh= 1.6km erz= 4.5km
nr= 11 gap= 99 rms=0.50
Locality: Iszkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	17.3	353	Pg	10:18:24.93	-0.33
			Sg	18:27.39	-0.28
PKST	19.9	286	Pg	10:18:25.28	-0.45
			Sg	18:28.36	-0.15
PKSG	21.8	21	Sg	10:18:29.16	0.05
NADP	25.6	78	Sg	10:18:30.89	0.57
MPLH	56.8	266	Pg	10:18:32.62	0.30
			Sg	18:40.89	0.66
PKSM	114.1	166	Sg	10:18:57.82	-0.62
			Pn	10:18:48.41	0.66
VYHS	148.7	16	Sn	19:05.13	-2.57

Hypocenter Parameters

33.

2019-01-18 time: 4:40:50.75 UTC ML= 2.1
lat: 46.193N lon: 16.532E h= 8.6 km
erh= 1.4km erz= 1.3km
nr= 26 gap=122 rms=0.53
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
KOGS	35.7	323	Pg	4:40:57.90	0.59
			Sg	41:02.67	0.24
BEHE	36.1	31	Pg	4:40:57.33	-0.04
			Sg	41:02.06	-0.48
PTJ	55.1	234	Pg	4:41:00.04	-0.66
			Sg	41:08.03	-0.44
ZAG	58.1	226	Pg	4:41:01.97	0.74
			Sg	41:08.94	-0.47
GOLS	73.0	254	iPg	4:41:03.33	-0.55
DOBS	82.2	267	iPg	4:41:05.62	0.11
GROS	84.8	291	Pg	4:41:05.87	-0.09
			Sg	41:16.77	-1.06
CRES	92.7	244	Pg	4:41:07.56	0.18
			Sg	41:20.48	0.13
LEGS	97.8	254	iPg	4:41:08.23	-0.05
			iSg	41:21.95	0.00
PERS	119.5	294	Pn	4:41:12.25	0.67
			Sn	41:27.40	-0.43
PDKS	119.5	263	iPn	4:41:12.37	0.79
SOKA	127.3	295	Pn	4:41:13.42	0.87
			Sn	41:27.60	-1.96
MPLH	133.2	35	Pn	4:41:13.29	-0.01
PKSV	137.4	104	Sn	4:41:30.05	-1.75
ARSA	140.6	327	Sn	4:41:32.45	-0.08
PKSM	162.8	89	Sn	4:41:37.24	-0.21
MORH	163.0	89	Sn	4:41:37.69	0.19

34.

2019-01-18 time: 5:47:22.52 UTC ML= 2.1
lat: 46.175N lon: 16.562E h= 10.0 km
erh= 1.9km erz= 1.7km
nr= 20 gap=133 rms=0.68
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
BEHE	36.7	27	Pg	5:47:29.64	0.33
			Sg	47:34.23	-0.37
KOGS	38.7	322	Pg	5:47:30.06	0.40
			Sg	47:35.05	-0.18
PTJ	55.9	237	Pg	5:47:33.01	0.35
			Sg	47:40.26	-0.31
GROS	87.7	291	Pg	5:47:37.83	-0.44
			Sg	47:48.79	-1.77
CRES	94.0	246	Pg	5:47:39.98	0.57
			Sg	47:52.76	0.18
KOVH	119.2	95	Pn	5:47:42.71	-0.43
			Sn	47:56.88	-2.34
PERS	122.4	295	Pn	5:47:43.31	-0.23
			Sn	47:59.58	-0.35
MPLH	133.5	34	Pn	5:47:45.11	0.19
PKSV	134.6	104	Sn	5:48:01.97	-0.68
ARSA	143.6	326	Pn	5:47:47.79	1.62
			Sn	48:04.50	-0.12
PKSM	160.5	89	Sn	5:48:09.74	1.35
MORH	160.7	88	Sn	5:48:08.74	0.30

Földrengés paraméterek

35.

2019-01-19 time: 6:35:27.38 UTC ML= 1.3
lat: 47.353N lon: 18.267E h= 6.5 km
erh= 1.9km erz= 1.3km
nr= 9 gap=100 rms=0.23
Locality: Csókakő
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	1.3	339	Pg	6:35:28.36	-0.21
			Sg	35:28.60	-0.89
PKSG	10.3	65	Pg	6:35:29.73	0.17
			Sg	35:31.38	0.11
PKST	20.4	239	Pg	6:35:31.38	0.17
			Sg	35:34.34	0.15
NADP	28.6	112	Sg	6:35:36.71	0.01
MORH	129.6	167	Sn	6:36:07.06	-0.12
PKSM	130.0	167	Sn	6:36:07.21	-0.06

36.

2019-01-21 time: 10:57:54.94 UTC ML= 1.9
lat: 48.605N lon: 20.761E h= 0.0 km
erh= 2.2km erz= 2.2km
nr= 17 gap= 86 rms=0.78
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.5	236	Pg	10:57:59.22	-0.21
			Sg	58:02.31	-0.62
ABAH	49.3	134	Pg	10:58:04.30	0.50
			Sg	58:10.61	-0.11
STHS	96.9	21	Pg	10:58:12.50	0.23
			Sg	58:24.02	-1.77
PSZ	99.9	220	Pg	10:58:13.18	0.38
			Sg	58:25.67	-1.07
LANS	112.6	303	Pg	10:58:14.97	-0.10
KOLS	117.0	72	Pn	10:58:17.37	1.55
			Sn	58:30.85	-1.26
A336	136.9	252	Pn	10:58:18.98	0.68
			Sn	58:36.34	-0.18
TRPA	141.9	112	Pn	10:58:19.25	0.32
			Sn	58:36.27	-1.37
VYHS	142.7	265	Pn	10:58:19.87	0.84
			Sn	58:37.95	0.13

37.

2019-01-21 time: 11:06:36.42 UTC ML= 1.4
lat: 47.102N lon: 17.927E h= 0.0 km
erh= 2.2km erz= 932km
nr= 18 gap=101 rms=0.82
Locality: Kádárta
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	19.2	25	Pg	11:06:39.88	0.02
			Pg	11:06:40.88	0.42
TIH	22.6	187	Sg	06:44.44	0.83
			Pg	11:06:42.61	0.77
MPLH	30.3	284	Sg	06:45.30	-0.77
			Pg	11:06:43.37	0.08
CSKK	38.5	41	Sg	06:48.49	-0.16
PKSG	47.6	47	Pg	11:06:44.92	-0.01
			Pg	11:06:48.79	-0.98
PKB1	74.8	118	Sg	07:01.52	1.33
			Pg	11:06:51.45	0.10
PKB5	83.6	132	Sg	07:02.82	-0.17
			Pg	11:06:52.88	1.30
PKB4	84.9	142	Sg	07:04.33	0.92
			Pg	11:06:56.00	-0.57
MORH	112.8	151	Pg		

Földrengés paraméterek

PKSM 113.1 151 Sg 07:10:53 -1.75
Pg 11:06:55.79 -0.83
Sg 07:10:00 -2.37

38.

2019-01-21 time: 15:10:50.36 UTC ML= 1.2
lat: 46.965N lon: 18.552E h= 8.3 km
erh= 2.2km erz= 2.5km
nr= 16 gap=152 rms=0.56
Locality: Sárszentágota
Comments:

sta	dist	azm	phase	hr mn sec	res
PKB1	27.2	138	Pg	15:10:55.30	-0.13
			Sg	10:59.30	-0.09
PKB5	43.4	161	Pg	15:10:59.45	1.20
			Sg	11:03.94	-0.47
PKS9	46.9	206	Sg	15:11:05.79	0.31
PKSG	49.0	346	Pg	15:10:58.96	-0.28
			Sg	11:05.46	-0.71
PKST	51.1	310	Pg	15:10:59.94	0.33
			Sg	11:06.82	0.00
PKB4	52.2	176	Sg	15:11:06.73	-0.43
MORH	83.5	175	Pg	15:11:05.62	0.27
			Sg	11:16.51	-0.53
PKSM	84.0	175	Pg	15:11:05.59	0.17
			Sg	11:16.71	-0.46
PKSV	121.8	191	Pn	15:11:12.60	1.09
			Sn	11:26.96	-1.06

39.

2019-01-22 time: 8:10:37.28 UTC ML= 1.4
lat: 45.602N lon: 17.782E h= 10.0 km
erh= 9.1km erz= 6.4km
nr= 7 gap=198 rms=0.48
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	48.5	49	Pg	8:10:46.97	0.85
			Sg	10:52.56	-0.45
PKSM	95.0	45	Pg	8:10:54.54	0.19
			Sg	11:07.23	-0.43
MORH	95.5	44	Pg	8:10:54.74	0.31
			Sg	11:07.38	-0.43
BLY	105.9	206	P*	8:10:55.78	-0.42

40.

2019-01-22 time: 8:55:52.75 UTC ML= 2.0
lat: 47.320N lon: 18.427E h= 0.0 km
erh= 3.2km erz= 846km
nr= 7 gap=191 rms=0.57
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	8.5	341	Pg	8:55:54.42	0.16
			Sg	55:54.95	-0.49
CSKK	13.5	291	Pg	8:55:55.74	0.59
			Sg	55:57.36	0.33
PKST	30.5	257	Sg	8:56:02.78	0.35
MPLH	69.2	256	Sg	8:56:13.43	-1.32
PKSM	124.3	172	Sg	8:56:31.85	-0.39

Hypocenter Parameters

41.

2019-01-22 time: 10:38:38.96 UTC ML= 1.3
lat: 47.230N lon: 18.274E h= 0.0 km
erh= 1.9km erz= 3.7km
nr= 12 gap=127 rms=0.56
Locality: Iszkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	14.9	356	Pg	10:38:41.71	0.09
			Sg	38:43.67	-0.02
PKST	18.4	280	Pg	10:38:41.95	-0.30
			Sg	38:44.92	0.10
PKSG	20.1	26	Pg	10:38:42.48	-0.07
			Sg	38:45.82	0.48
MPLH	56.0	263	Pg	10:38:49.23	0.26
PKB5	78.8	154	Pg	10:38:53.80	0.76
MORH	116.2	166	Pg	10:38:59.21	-0.50
			Sg	39:14.40	-1.50
VYHS	146.7	17	Pn	10:39:04.89	0.60
			Sn	39:22.61	-1.44

42.

2019-01-22 time: 19:34:06.14 UTC ML= 1.5
lat: 46.977N lon: 17.524E h= 13.8 km
erh= 2.0km erz= 1.4km
nr= 13 gap=228 rms=0.36
Locality: Taliándörögd
Comments:

sta	dist	azm	phase	hr mn sec	res
MPLH	21.5	3	Pg	19:34:10.36	-0.34
			Sg	34:13.53	-0.73
TIH	29.3	107	Pg	19:34:11.69	-0.24
			Sg	34:16.20	-0.24
PKST	49.8	51	Pg	19:34:15.71	0.35
			Sg	34:22.88	0.32
CSKK	70.4	52	Pg	19:34:19.24	0.29
			Sg	34:28.98	0.04
PKB4	98.3	123	S*	19:34:37.11	-0.01
PKB1	99.0	102	S*	19:34:36.80	-0.50
MORH	120.5	135	Pn	19:34:26.89	0.46
			Sn	34:41.93	-0.33
PKSM	120.7	135	Pn	19:34:26.87	0.42

43.

2019-01-23 time: 13:37:58.46 UTC ML= 1.3
lat: 46.135N lon: 18.071E h= 2.3 km
erh= 2.0km erz= 4.8km
nr= 10 gap=241 rms=0.29
Locality: Abaliget
Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	5.7	157	Pg	13:37:59.45	-0.11
			Sg	38:00.61	0.20
PKSV	30.8	153	Pg	13:38:03.79	-0.19
			Sg	38:08.26	-0.03
PKSM	44.9	79	Pg	13:38:06.61	0.12
			Sg	38:12.48	-0.26
MORH	45.2	79	Pg	13:38:06.76	0.22
			Sg	38:12.71	-0.13
PKB5	72.3	45	Pg	13:38:12.05	0.67
PKB1	91.0	38	Pg	13:38:14.29	-0.42

Hypocenter Parameters

Földrengés paraméterek

44.

2019-01-23 time: 13:40:30.51 UTC ML= 1.2
lat: 46.102N lon: 18.105E h= 5.1 km
erh= 2.1km erz= 2.1km
nr= 12 gap=200 rms=0.35
Locality: Kővágótóttós
Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	1.6	195	Pg	13:40:31.05	-0.42
			Sg	40:32.46	0.24
PKSV	26.4	154	Pg	13:40:35.00	-0.31
			Sg	40:39.64	0.59
PKSM	43.2	74	Pg	13:40:37.91	-0.36
			Sg	40:44.23	-0.10
MORH	43.5	73	Pg	13:40:38.58	0.25
			Sg	40:44.21	-0.22
PKB4	58.3	41	Pg	13:40:40.94	-0.01
			Pg	13:40:43.98	0.37
PKB5	73.2	42	Pg	40:54.48	0.65
			Sg	13:40:59.62	-0.30

45.

2019-01-24 time: 8:11:13.14 UTC ML= 1.5
lat: 47.360N lon: 18.390E h= 0.0 km
erh= 2.2km erz= 903km
nr= 11 gap=109 rms=0.74
Locality: Gánt
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	3.6	1	PgU	8:11:14.05	0.28
			Sg	11:14.60	0.33
CSKK	9.8	272	Pg	8:11:15.28	0.40
			Sg	11:16.55	0.31
NADP	20.6	123	Sg	8:11:20.67	0.97
			Pg	8:11:18.73	0.40
PKST	29.1	247	Sg	11:22.23	-0.16
			Pg	8:11:36.19	0.08
MORH	128.6	171	Sg	11:52.74	-1.28
			Sg	8:11:52.67	-1.48
PKSM	129.0	171	Sg	8:11:52.81	-1.79
			Sg	8:11:52.81	-1.79

46.

2019-01-24 time: 9:31:26.74 UTC ML= 0.7
lat: 46.165N lon: 18.304E h= 0.0 km
erh= 0.8km erz= 165km
nr= 8 gap=196 rms=0.12
Locality: Zobákpusztá
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	18.0	241	Pg	9:31:30.05	0.11
			Sg	31:32.17	-0.27
PKSM	26.6	79	Pg	9:31:31.42	-0.06
			Sg	31:35.23	0.05
MORH	26.9	78	Pg	9:31:31.56	0.03
			Sg	31:35.33	0.06
PKSV	31.0	187	Pg	9:31:32.14	-0.14
			Sg	31:36.80	0.20

47.

2019-01-24 time: 9:58:48.34 UTC ML= 1.8
lat: 48.615N lon: 20.775E h= 0.0 km
erh= 1.7km erz= 1.9km
nr= 8 gap=194 rms=0.70
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	25.9	236	Pg	9:58:53.49	0.53
			Sg	58:56.68	0.11
ABAH	49.4	136	Pg	9:58:57.40	0.25
			Sg	59:03.23	-0.80
PSZ	101.3	220	Sg	9:59:21.17	0.62
			Pg	9:59:08.96	0.46
LANS	112.9	302	Pg	9:59:29.92	-1.60
			Sn	9:59:31.67	-1.10
A336	138.1	252	Sn		
			Sn		
VYHS	143.8	265	Sn		
			Sn		

48.

2019-01-24 time: 10:12:31.58 UTC ML= 0.9
lat: 47.222N lon: 18.283E h= 0.0 km
erh= 1.8km erz= 252km
nr= 6 gap=259 rms=0.15
Locality: Iszkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	15.8	354	Pg	10:12:34.40	-0.01
			Sg	12:36.46	-0.15
PKST	19.3	282	Pg	10:12:35.20	0.18
			Sg	12:37.59	-0.12
PKSG	20.6	23	Pg	10:12:35.12	-0.14
			Sg	12:38.38	0.25

49.

2019-01-24 time: 10:46:15.60 UTC ML= 1.2
lat: 47.291N lon: 18.318E h= 0.0 km
erh= 1.0km erz= 344km
nr= 9 gap= 93 rms=0.26
Locality: Magyaralmás
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	9.2	332	Pg	10:46:17.19	-0.05
			Sg	46:18.44	-0.07
PKSG	12.5	26	Pg	10:46:17.91	0.07
			Sg	46:19.32	-0.26
PKST	21.7	261	Pg	10:46:19.51	0.03
			Sg	46:22.65	0.15
NADP	23.0	99	Sg	10:46:23.18	0.28
			Pg	10:46:37.40	0.01
MORH	122.0	168	Pg	46:51.86	-2.53
			Sg		

50.

2019-01-24 time: 11:02:54.74 UTC ML= 2.1
lat: 48.204N lon: 21.233E h= 0.0 km
erh= 2.9km erz= 864km
nr= 8 gap=158 rms=0.61
Locality: Rátka
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	10.2	3	Pg	11:02:57.08	0.51
			Sg	02:58.33	0.34
KECS	63.5	299	Sg	11:03:13.63	-1.28
			Pg	11:03:12.67	0.51
TRPA	97.5	95	Pg	03:24.89	-0.85
			Sg		

Földrengés paraméterek

PSZ 104.7 252 Sg 11:03:28.09 0.08
KOLS 111.7 43 Pg 11:03:15.00 0.32
Sg 03:29.61 -0.63

51.

2019-01-27 time: 17:18:42.55 UTC ML= 0.7
lat: 46.328N lon: 18.614E h= 9.1 km
erh= 0.4km erz= 1.1km
nr= 11 gap= 93 rms=0.13
Locality: Kakasd
Comments:

sta	dist	azm	phase	hr mn sec	res
MORH	12.7	169	Pg	17:18:45.51	0.16
			Sg	18:47.51	-0.02
PKSM	13.1	171	Pg	17:18:45.56	0.15
			Sg	18:47.54	-0.09
PKB4	18.7	358	Sg	17:18:49.08	-0.08
PKB5	31.1	18	Pg	17:18:48.22	-0.12
			Sg	18:52.69	-0.16
PKS9	38.6	318	Sg	17:18:55.28	0.13
PKB3	46.0	77	Sg	17:18:57.56	0.12
KOVH	47.8	236	Pg	17:18:51.26	0.02
			Sg	18:57.76	-0.26

52.

2019-01-28 time: 9:40:36.85 UTC ML= 1.1
lat: 47.110N lon: 18.014E h= 0.0 km
erh= 1.7km erz= 651km
nr= 13 gap=112 rms=0.55
Locality: Királyszentistván
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	16.6	5	Pg	9:40:39.23	-0.59
			Sg	40:42.54	0.40
TIH	25.1	202	Pg	9:40:41.69	0.36
			Sg	40:45.60	0.78
CSKK	33.8	34	Pg	9:40:42.83	-0.06
			Sg	40:48.07	0.48
MPLH	36.6	281	Pg	9:40:43.53	0.14
			Sg	40:47.85	-0.64
PKSG	42.4	42	Pg	9:40:44.63	0.21
MORH	110.5	154	Pg	9:40:56.84	0.26
			Sg	41:10.80	-1.17
PKSM	110.8	154	Pg	9:40:56.81	0.18
			Sg	41:10.45	-1.61

53.

2019-01-28 time: 9:59:18.78 UTC ML= 2.0
lat: 47.372N lon: 18.424E h= 0.0 km
erh= 1.9km erz= ***km
nr= 20 gap= 70 rms=0.95
Locality: Gánt
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	3.4	311	Pg	9:59:19.87	0.49
			Sg	59:20.39	0.54
CSKK	12.4	265	Pg	9:59:23.09	2.09
NADP	19.4	131	Pg	9:59:23.26	1.02
			Sg	59:25.79	0.85
PKST	32.1	247	Pg	9:59:24.52	0.01
			Sg	59:28.66	-0.31
TIH	66.2	218	Sg	9:59:40.09	0.27
MPLH	70.6	251	Sg	9:59:39.67	-1.56
PKB1	71.1	157	Pg	9:59:32.05	0.58
PKB5	89.6	165	Sg	9:59:47.57	0.32
A336	105.0	24	Pg	9:59:37.87	0.35

Hypocenter Parameters

		Sg	59:51.82	-0.32	
A337	108.0	334	Sg	9:59:52.38	-0.73
PSZ	126.0	61	Sg	9:59:57.22	-1.62
VYHS	128.5	14	Sg	9:59:58.75	-0.86
MORH	129.6	173	Pg	9:59:41.78	-0.15
		Sg	59:57.92	-2.06	
PKSM	130.0	173	Pg	9:59:41.78	-0.22
		Sg	59:58.00	-2.12	

54.

2019-01-29 time: 7:47:31.66 UTC ML= 2.1
lat: 47.836N lon: 18.615E h= 6.1 km
erh= 1.3km erz= 1.4km
nr= 33 gap= 69 rms=0.61
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr mn sec	res
SRO	22.7	264	Pg	7:47:36.19	0.33
			Sg	47:39.82	0.68
A338	27.9	315	Sg	7:47:42.11	1.37
PENC	50.2	96	Pg	7:47:40.66	-0.03
PKSG	52.2	199	Pg	7:47:41.58	0.53
			Sg	47:47.76	-0.61
A336	52.6	33	Pg	7:47:41.33	0.22
			Sg	47:47.08	-1.41
CSKK	59.0	207	Pg	7:47:42.33	0.08
			Sg	47:50.26	-0.25
NADP	64.3	180	Pg	7:47:44.03	0.83
			Sg	47:51.68	-0.52
VYHS	74.9	13	Pg	7:47:45.15	0.06
			Sg	47:53.71	-1.85
PKST	77.7	214	Pg	7:47:45.17	-0.40
			Sg	47:56.10	-0.32
PSZ	96.1	85	Pg	7:47:48.87	0.01
EGYH	107.1	244	Pg	7:47:50.68	-0.14
			Sg	48:05.03	-0.73
MPLH	109.8	228	Pg	7:47:51.12	-0.17
			Sg	48:05.20	-1.41
TIH	117.5	208	Pn	7:47:52.63	0.06
PKB1	117.7	173	Pn	7:47:52.94	0.34
			Sn	48:07.47	-1.46
PKB5	138.3	176	Sn	7:48:13.47	-0.03
PKB4	149.0	180	Sn	7:48:16.28	0.42
KECS	156.7	63	Pn	7:47:57.70	0.25
			Sn	48:17.25	-0.32
LANS	159.1	23	Pn	7:47:58.69	0.93
PKB3	163.1	164	Sn	7:48:19.96	0.96
MORH	180.2	179	Pn	7:48:00.65	0.27
PKSM	180.6	179	Pn	7:48:00.71	0.27
MORC	229.7	340	Sn	7:48:32.85	-0.93

55.

2019-01-29 time: 9:11:15.46 UTC ML= 1.4
lat: 48.616N lon: 20.789E h= 0.0 km
erh= 2.9km erz= 3.6km
nr= 9 gap=195 rms=0.54
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	26.9	237	Pg	9:11:20.69	0.43
			Sg	11:23.90	-0.10
ABAH	48.7	137	Sg	9:11:30.33	-0.63
PSZ	102.2	221	Pg	9:11:34.29	0.59
			Sg	11:47.40	-0.53
LANS	113.7	302	Pg	9:11:35.80	0.04
			Sg	11:50.81	-0.79
VYHS	144.8	265	Pn	9:11:41.32	0.77
			Sn	11:59.50	-0.63

Hypocenter Parameters

Földrengés paraméterek

56.

2019-01-29 time: 10:35:31.21 UTC ML= 1.6
lat: 47.771N lon: 19.051E h= 17.1 km
erh= 2.7km erz= 3.2km
nr= 8 gap=127 rms=0.57
Locality: Dunabogdány
Comments:

sta	dist	azm	phase	hr mn sec	res
PENC	17.4	83	Pg	10:35:36.32	0.75
			Sg	35:38.15	-0.83
A336	51.5	356	Sg	10:35:47.98	-0.49
A338	58.8	297	Sg	10:35:50.40	-0.29
PSZ	65.2	75	Sg	10:35:52.44	-0.21
NADP	65.8	210	Sg	10:35:52.39	-0.42
VYHS	81.9	349	S*	10:35:57.19	-0.02

57.

2019-01-29 time: 19:59:29.55 UTC ML= 0.4
lat: 47.383N lon: 18.174E h= 0.1 km
erh= 5.7km erz= 179km
nr= 6 gap=229 rms=0.09
Locality: Nagyveleg
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	6.9	109	Pg	19:59:30.79	0.01
			Sg	59:31.76	0.02
PKSG	16.4	87	Pg	19:59:32.61	0.13
			Sg	59:34.61	-0.15
PKST	17.4	217	PgD	19:59:32.56	-0.10
			Sg	59:35.14	0.06

58.

2019-01-30 time: 10:27:17.62 UTC ML= 1.0
lat: 47.208N lon: 18.308E h= 0.0 km
erh= 1.0km erz= 2.5km
nr= 9 gap=150 rms=0.23
Locality: Székesfehérvár
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	17.6	348	Pg	10:27:20.76	-0.01
PKSG	21.4	17	Pg	10:27:21.66	0.22
			Sg	27:23.98	-0.44
PKST	21.5	285	Pg	10:27:21.42	-0.03
			Sg	27:24.37	-0.07
MORH	113.2	167	Pg	10:27:37.97	0.13
PKSM	113.6	167	Pg	10:27:37.97	0.06
			Sg	27:53.17	-0.57
VYHS	148.4	15	Pn	10:27:43.44	0.28

59.

2019-01-30 time: 12:45:39.92 UTC ML= 2.3
lat: 46.149N lon: 16.381E h= 10.0 km
erh= 3.3km erz= 2.6km
nr= 10 gap=184 rms=0.61
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
KOGS	34.8	343	Sg	12:45:51.06	-0.36
PTJ	42.9	230	Pg	12:45:47.25	-0.54
			Sg	45:53.44	-0.48
BEHE	46.9	40	Sg	12:45:54.83	-0.32
GROS	76.1	297	Pg	12:45:54.48	0.85
CRES	80.1	243	Pg	12:45:55.04	0.70

			Sg	46:06.14	0.55
PERS	111.3	299	Pn	12:45:58.86	-0.70
			Sn	46:14.39	-0.48
PKST	176.7	46	Pn	12:46:08.39	0.68

60.

2019-01-30 time: 13:17:33.59 UTC ML= 1.1
lat: 46.126N lon: 18.028E h= 0.0 km
erh= 1.6km erz= 302km
nr= 11 gap=252 rms=0.25
Locality: Hetvehely
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	7.0	127	Pg	13:17:35.01	0.17
			Sg	17:35.99	0.18
PKSV	31.6	147	Pg	13:17:39.09	-0.15
			Sg	17:43.52	-0.13
PKSM	48.3	79	Pg	13:17:42.38	0.16
			Sg	17:48.23	-0.71
MORH	48.6	78	Pg	13:17:42.29	0.02
			Sg	17:48.77	-0.27
PKB4	60.5	47	Sg	13:17:52.93	0.12
PKB1	93.8	39	Pg	13:17:50.15	-0.19
			Sg	18:03.92	0.52

61.

2019-01-31 time: 8:29:48.28 UTC ML= 1.3
lat: 47.311N lon: 17.644E h= 0.0 km
erh= 1.5km erz= 388km
nr= 8 gap=144 rms=0.28
Locality: Homokbödöge
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
MPLH	17.6	207	Pg	8:29:51.18	-0.24
			Sg	29:53.97	0.10
EGYH	26.4	297	Pg	8:29:53.12	0.13
PKST	30.1	101	Pg	8:29:53.26	-0.40
			Sg	29:58.31	0.46
CSKK	47.0	83	Sg	8:30:02.93	-0.28
PKSG	57.1	81	Pg	8:29:58.79	0.30
			Sg	30:06.47	0.03

62.

2019-01-31 time: 8:39:52.22 UTC ML= 1.4
lat: 47.343N lon: 18.414E h= 0.0 km
erh= 2.2km erz= 4.5km
nr= 11 gap=158 rms=0.65
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	5.7	342	Pg	8:39:53.42	0.19
			Sg	39:54.00	-0.02
CSKK	11.8	281	Pg	8:39:54.60	0.27
			Sg	39:56.23	0.26
PKST	30.2	252	Pg	8:39:57.87	0.26
			Sg	40:01.15	-0.67
MORH	126.6	172	Pg	8:40:15.74	0.91
			Sg	40:31.68	-0.78
PKSM	127.0	172	Pg	8:40:15.44	0.54
			Sg	40:31.35	-1.24
VYHS	131.8	14	Sn	8:40:32.51	-1.48

Földrengés paraméterek

63.

2019-01-31 time: 9:25:44.49 UTC ML= 1.4
lat: 46.582N lon: 22.587E h= 1.3 km
erh= 3.8km erz= 3.3km
nr= 8 gap=148 rms=0.44
Locality: Romania
Comments:

sta	dist	azm	phase	hr mn sec	res
DRGR	25.2	22	Pg	9:25:48.39	-0.61
			Sg	25:53.21	0.69
BZS	130.9	215	Pn	9:26:07.87	0.19
			Sn	26:26.05	0.27
AMBH	145.3	260	Sn	9:26:28.81	-0.16
ARCR	146.0	67	Sn	9:26:29.11	-0.01
KOLS	262.5	355	Pn	9:26:23.60	-0.50
			Sn	26:57.03	2.04*

64.

2019-01-31 time: 10:04:30.86 UTC ML= 1.6
lat: 48.613N lon: 20.781E h= 0.0 km
erh= 2.0km erz= 2.0km
nr= 12 gap=130 rms=0.51
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	26.2	236	Pg	10:04:35.76	0.23
			Sg	04:38.92	-0.26
ABAH	49.0	136	Pg	10:04:40.28	0.68
			Sg	04:45.90	-0.53
PSZ	101.5	220	Pg	10:04:49.17	0.18
LANS	113.3	302	Pg	10:04:51.33	0.24
KOLS	115.3	72	Sg	10:05:06.84	-0.67
A336	138.5	252	Sn	10:05:13.47	-0.65
TRPA	140.9	112	Pn	10:04:55.89	0.43
			Sn	05:12.87	-1.79
VYHS	144.2	265	Pn	10:04:56.20	0.33
			Sn	05:14.72	-0.66

65.

2019-01-31 time: 10:28:20.28 UTC ML= 1.0
lat: 47.207N lon: 18.285E h= 0.0 km
erh= 0.8km erz= 250km
nr= 9 gap=145 rms=0.19
Locality: Iszkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	17.5	354	Pg	10:28:23.30	-0.10
			Sg	28:25.56	-0.28
PKST	19.9	287	Pg	10:28:23.86	0.04
			Sg	28:26.47	-0.12
PKSG	22.1	21	Pg	10:28:24.26	0.04
			Sg	28:27.50	0.20
MPLH	56.6	266	Pg	10:28:30.86	0.47
MORH	113.5	166	Pg	10:28:40.48	-0.07
PKSM	113.9	166	Pg	10:28:40.50	-0.11

66.

2019-01-31 time: 11:48:45.25 UTC ML= 1.2
lat: 47.366N lon: 18.396E h= 5.1 km
erh= 3.5km erz= 4.3km
nr= 6 gap=134 rms=0.18
Locality: Gánt
Comments:

Hypocenter Parameters

sta	dist	azm	phase	hr mn sec	res
PKSG	2.9	352	Pg	11:48:46.17	-0.13
			Sg	48:46.98	-0.14
CSKK	10.3	268	Pg	11:48:47.41	0.11
			Sg	48:49.21	0.31
NADP	20.6	126	Pg	11:48:49.14	0.10
PKST	29.8	247	Sg	11:48:54.60	-0.27

67.

2019-02-01 time: 9:44:49.70 UTC ML= 0.6
lat: 46.167N lon: 18.297E h= 0.0 km
erh= 0.9km erz= 181km
nr= 8 gap=199 rms=0.14
Locality: Zobákpusztá
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	17.6	240	Pg	9:44:52.85	0.01
			Sg	44:54.98	-0.31
PKSM	27.0	79	Pg	9:44:54.63	0.10
			Sg	44:58.60	0.30
MORH	27.3	79	Pg	9:44:54.48	-0.11
			Sg	44:58.22	-0.18
PKSV	31.2	186	Pg	9:44:55.33	0.06
			Sg	44:59.68	0.06

68.

2019-02-01 time: 11:45:38.25 UTC ML= 2.6
lat: 46.007N lon: 16.403E h= 13.5 km
erh= 8.2km erz= 5.6km
nr= 9 gap=169 rms=1.31
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
KOGS	50.5	347	Pg	11:45:49.13	1.56
			Sg	45:53.87	-0.98
CRES	76.1	255	Pg	11:45:52.72	0.68
			Sg	46:00.59	-2.22
GROS	85.9	306	Pg	11:45:52.65	-1.12
KOVH	131.7	86	Sn	11:46:15.60	-1.33
OBKA	153.5	291	Pn	11:46:04.48	1.79
			Sn	46:20.95	-0.81
ARSA	153.8	334	Sn	11:46:21.82	-0.02

69.

2019-02-02 time: 18:57:25.67 UTC ML= 1.6
lat: 47.832N lon: 18.654E h= 13.6 km
erh= 1.6km erz= 1.9km
nr= 18 gap=106 rms=0.62
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr mn sec	res
SRO	25.6	265	Pg	18:57:31.28	0.43
			Sg	57:34.14	-0.74
A338	30.4	312	Pg	18:57:32.20	0.59
			Sg	57:36.28	0.03
PENC	47.2	96	Sg	18:57:41.36	0.07
A336	51.5	30	PgD	18:57:35.58	0.40
			Sg	57:42.14	-0.46
PKSG	52.8	202	Pg	18:57:35.81	0.41
			Sg	57:42.39	-0.61
CSKK	59.9	210	Pg	18:57:36.74	0.09
			Sg	57:44.39	-0.82
A339	74.7	270	Sg	18:57:51.38	1.56
VYHS	74.8	10	Pg	18:57:39.46	0.21
			Sg	57:47.99	-1.86
PKST	79.0	216	Sg	18:57:50.15	-0.99

Hypocenter Parameters

A337 79.1 305 Sg 18:57:50.17 -1.01
EGYH 109.6 245 Sn 18:57:59.75 0.33
MPLH 111.7 229 Sn 18:57:59.48 -0.40

70.

2019-02-04 time: 3:07:49.17 UTC ML= 1.5
lat: 48.361N lon: 22.931E h= 10.7 km
erh= 2.8km erz= 1.1km
nr= 6 gap=266 rms=0.17
Locality: Ukraine
Comments:

sta	dist	azm	phase	hr	mn	sec	res
TRPA	38.8	229	Pg	3:07:56.48			0.12
			Sg	08:01.65			-0.31
KOLS	80.0	323	Pg	3:08:03.46			-0.12
			Sg	08:15.13			0.30
ABAH	125.7	267	Pn	3:08:10.56			0.06
			Sn	08:27.03			-0.11

71.

2019-02-04 time: 8:30:24.75 UTC ML= 1.6
lat: 47.854N lon: 19.861E h= 0.0 km
erh= 3.8km erz= 6.8km
nr= 12 gap=147 rms=0.91
Locality: Gyöngyösoroszi
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PSZ	7.6	19	PgU	8:30:27.30			1.19
			Sg	30:28.67			1.50
PENC	44.0	261	Pg	8:30:33.02			0.42
			Sg	30:38.92			0.20
A336	76.9	303	Sg	8:30:49.12			-0.07
KECS	84.0	34	Sg	8:30:50.81			-0.64
VYHS	104.3	313	Pg	8:30:43.99			0.61
			Sg	30:56.11			-1.80
ABAH	113.9	64	Pg	8:30:44.30			-0.79
			Sg	31:00.28			-0.67
PKSG	121.9	245	Sg	8:31:01.93			-1.56
PKB5	163.9	211	Sn	8:31:13.54			-0.10

72.

2019-02-04 time: 9:24:57.83 UTC ML= 1.5
lat: 48.627N lon: 20.748E h= 0.0 km
erh= 3.2km erz= 3.6km
nr= 11 gap=194 rms=0.72
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	25.1	230	Pg	9:25:02.92			0.60
			Sg	25:06.03			0.21
ABAH	51.8	135	Pg	9:25:06.92			-0.16
			Sg	25:14.13			-0.16
PSZ	101.1	219	Pg	9:25:14.78			-1.11
			Sg	25:29.79			-0.19
LANS	110.4	302	Pg	9:25:18.35			0.80
			Sg	25:32.21			-0.73
A336	136.6	251	Sn	9:25:40.32			-0.36
VYHS	141.9	264	Pn	9:25:23.67			1.11
			Sn	25:40.70			-1.14

Földrengés paraméterek

73.

2019-02-04 time: 11:14:52.51 UTC ML= 1.2
lat: 47.216N lon: 18.308E h= 0.0 km
erh= 4.3km erz= 658km
nr= 8 gap=247 rms=0.47
Locality: Moha
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	16.8	348	Pg	11:14:55.46			-0.04
			Sg	14:58.17			0.33
PKSG	20.5	18	Pg	11:14:56.08			-0.09
			Sg	14:59.14			0.11
PKST	21.3	283	Pg	11:14:55.65			-0.66
			Sg	14:58.52			-0.76
MPLH	58.5	265	Pg	11:15:03.60			0.65
			Sg	15:11.67			0.57

74.

2019-02-04 time: 20:04:09.07 UTC ML= 1.6
lat: 46.395N lon: 21.278E h= 1.3 km
erh= 3.0km erz= 3.4km
nr= 21 gap=107 rms=1.25
Locality: Romania
Comments:

sta	dist	azm	phase	hr	mn	sec	res
SIRR	32.7	116	PgC	20:04:15.93			1.02
			Sg	04:18.80			-0.67
AMBH	42.7	263	PgD	20:04:16.55			-0.16
			Sg	04:22.11			-0.55
BORR	86.5	27	Sg	20:04:37.00			0.45
BZS	90.4	163	Pg	20:04:25.33			0.11
			Sg	04:36.48			-1.34
SURR	96.8	137	PgC	20:04:27.48			1.12
			Sg	04:37.70			-2.15
DRGR	118.4	68	Pg	20:04:30.18			-0.03
			Sg	04:44.14			-2.56
PKS6	133.5	280	Pn	20:04:32.44			-0.14
			Sn	04:49.03			-1.89
MARR	144.7	78	PnC	20:04:35.11			1.13
			Sn	04:51.60			-1.81
MESR	152.8	57	PnC	20:04:38.09			3.10
			Sn	04:54.40			-0.81
GZR	161.1	134	PnD	20:04:37.68			1.65
			Sn	04:55.90			-1.15
MDVR	182.6	169	PnD	20:04:40.58			1.88
			Sn	05:02.90			1.08

75.

2019-02-05 time: 6:14:50.51 UTC ML= 1.7
lat: 46.960N lon: 21.723E h= 13.6 km
erh= 2.3km erz= 1.6km
nr= 18 gap= 86 rms=0.73
Locality: Romania
Comments:

sta	dist	azm	phase	hr	mn	sec	res
BORR	15.3	18	PgC	6:14:53.93			-0.22
			Sg	14:57.20			0.20
SIRR	77.1	184	PgD	6:15:04.57			0.08
			Sg	15:14.20			-1.19
DRGR	77.6	104	Pg	6:15:04.71			0.13
			Sg	15:14.55			-1.00
AMBH	102.1	228	S*	6:15:21.33			-1.23
MARR	111.1	106	PnC	6:15:10.49			0.83
			Sn	15:23.40			-1.20
SURR	137.5	167	PnC	6:15:13.68			0.72
			Sn	15:30.30			-0.17
BZS	149.5	183	Pn	6:15:15.41			0.96

Földrengés paraméterek

		Sn	15:33.03	-0.10
ABAH	153.0	346	Sn	6:15:33.18
PSZ	174.3	308	Sn	6:15:38.56
GZR	192.2	155	PnC	6:15:20.86
			Sn	15:43.50
MDVR	242.1	180	Sn	6:15:53.60

76.

2019-02-05 time: 9:07:27.08 UTC ML= 1.0
lat: 47.130N lon: 18.253E h= 0.0 km
erh= 2.9km erz= 351km
nr= 6 gap=291 rms=0.21
Locality: Nádasdladány
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	21.9	311	Pg	9:07:30.93	-0.07
			Sg	07:34.26	0.20
CSKK	25.9	1	Pg	9:07:31.64	-0.08
			Sg	07:34.64	-0.69
PKSG	30.9	20	Pg	9:07:32.79	0.18
			Sg	07:37.00	0.09

77.

2019-02-05 time: 10:58:49.99 UTC ML= 1.7
lat: 47.367N lon: 18.396E h= 0.0 km
erh= 3.2km erz= ***km
nr= 11 gap= 94 rms=1.02
Locality: Gánt
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	2.8	352	Pg	10:58:50.75	0.26
			Sg	58:51.28	0.40
CSKK	10.2	268	Pg	10:58:52.05	0.23
			Sg	58:53.99	0.75
PKST	29.9	246	Pg	10:58:55.19	-0.13
			Sg	58:58.86	-0.62
PKB1	71.4	155	Pg	10:59:04.53	1.79
PSZ	128.2	61	Sg	10:59:30.07	-0.68
MORH	129.4	172	Sg	10:59:29.11	-1.99
VYHS	129.6	15	Sg	10:59:30.06	-1.12
PKSM	129.8	172	Sg	10:59:29.02	-2.21

78.

2019-02-05 time: 11:12:56.32 UTC ML= 2.0
lat: 47.325N lon: 18.413E h= 0.0 km
erh= 1.4km erz= 2.5km
nr= 10 gap=113 rms=0.65
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	7.6	347	Pg	11:12:57.80	0.12
			Sg	12:58.24	-0.50
CSKK	12.3	290	Pg	11:12:59.34	0.82
			Sg	13:00.79	0.55
PKST	29.6	256	Sg	11:13:05.58	-0.16
MORH	124.6	172	Sg	11:13:35.58	-0.34
PKSM	125.0	172	Sg	11:13:36.03	-0.02
PSZ	129.4	59	Sg	11:13:37.69	0.24
VYHS	133.7	14	Sn	11:13:37.34	-1.19
SOP	145.3	286	Sn	11:13:39.10	-2.00

Hypocenter Parameters

79.

2019-02-05 time: 21:39:13.23 UTC ML= 1.3
lat: 47.835N lon: 18.330E h= 10.0 km
erh= 3.2km erz= 2.4km
nr= 8 gap=157 rms=0.34
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr mn sec	res
SRO	2.7	208	PgD	21:39:15.44	0.36
			Sg	39:16.15	-0.37
A338	20.1	5	Sg	21:39:20.00	-0.37
PKSG	49.5	175	Pg	21:39:22.64	0.40
			Sg	39:28.75	-0.52
A336	66.7	48	Sg	21:39:34.66	-0.01
PKST	67.8	199	Sg	21:39:34.99	-0.01
VYHS	82.4	27	Sg	21:39:39.33	-0.28

80.

2019-02-06 time: 9:48:30.24 UTC ML= 1.6
lat: 48.610N lon: 20.756E h= 0.0 km
erh= 1.9km erz= 2.4km
nr= 11 gap=130 rms=0.50
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.4	235	Pg	9:48:34.67	0.07
			Sg	48:37.29	-0.72
ABAH	50.0	134	Sg	9:48:45.42	-0.72
PSZ	100.0	220	Pg	9:48:49.03	0.93
			Sg	49:01.89	-0.14
LANS	112.0	302	Pg	9:48:50.15	-0.08
			Sg	49:05.10	-0.73
KOLS	117.2	72	Sg	9:49:07.61	0.12
A336	136.6	252	Sn	9:49:12.73	-0.35
VYHS	142.3	265	Pn	9:48:55.42	0.40
			Sn	49:14.50	0.16

81.

2019-02-06 time: 9:51:21.78 UTC ML= 1.8
lat: 47.715N lon: 18.647E h= 0.0 km
erh= 4.3km erz= 546km
nr= 6 gap=249 rms=0.32
Locality: Tokod
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
SRO	27.3	294	Pg	9:51:26.31	-0.35
			Sg	51:30.68	0.22
PKSG	40.8	208	Sg	9:51:34.85	0.11
CSKK	48.7	217	Pg	9:51:30.88	0.40
			Sg	51:36.81	-0.46
NADP	50.9	182	Sg	9:51:37.96	0.01

82.

2019-02-06 time: 15:15:45.62 UTC ML= 1.0
lat: 48.649N lon: 19.421E h= 3.9 km
erh= 1.1km erz=21.1km
nr= 7 gap=153 rms=0.69
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr mn sec	res
VYHS	46.4	248	Pg	15:15:54.21	0.27
			Sg	15:59.64	-0.79
A336	55.7	214	Sg	15:16:02.65	-0.73

Hypocenter Parameters

LANS 55.9 4 Pg 15:15:56.27 0.64
Sg 16:02.60 -0.84
PSZ 88.5 157 Pg 15:16:02.15 0.71
Sg 16:12.80 -0.97

83.

2019-02-06 time: 15:43:37.91 UTC ML= 1.5
lat: 47.924N lon: 20.740E h= 10.0 km
erh= 2.2km erz= 1.8km
nr= 9 gap=132 rms=0.37
Locality: Vatta
Comments:

sta	dist	azm	phase	hr	mn	sec	res
ABAH	55.7	42	Pg	15:43:48.01			0.00
			Sg	43:54.94			-0.94
PSZ	63.2	269	Pg	15:43:49.37			0.04
			Sg	43:57.88			-0.36
KECS	65.0	343	Pg	15:43:50.16			0.51
			Sg	43:58.92			0.11
PENC	110.1	262	Sn	15:44:12.09			-0.50
KOLS	159.6	45	Sn	15:44:23.68			0.10
DRGR	195.0	130	Sn	15:44:31.77			0.32

84.

2019-02-06 time: 15:57:39.76 UTC ML= 1.7
lat: 47.924N lon: 20.737E h= 3.3 km
erh= 1.7km erz= 1.6km
nr= 13 gap=100 rms=0.44
Locality: Vatta
Comments:

sta	dist	azm	phase	hr	mn	sec	res
ABAH	55.7	42	Pg	15:57:49.74			0.01
			Sg	57:56.76			-0.75
PSZ	63.0	269	Pg	15:57:51.34			0.31
			Sg	57:59.68			-0.13
KECS	64.9	343	Pg	15:57:51.54			0.18
			Sg	58:00.38			-0.03
PENC	109.9	262	Sg	15:58:14.01			-0.71
A336	134.0	285	Sn	15:58:21.37			0.11
PKS7	153.7	231	Sn	15:58:25.09			-0.55
VYHS	154.8	294	Sn	15:58:26.52			0.63
KOLS	159.7	45	Sn	15:58:26.89			-0.08
DRGR	195.2	130	Pn	15:58:11.55			0.84
			Sn	58:33.71			-1.14

85.

2019-02-06 time: 19:12:21.12 UTC ML= 1.5
lat: 47.889N lon: 20.782E h= 3.6 km
erh= 3.3km erz= 5.7km
nr= 7 gap=143 rms=0.41
Locality: Vatta
Comments:

sta	dist	azm	phase	hr	mn	sec	res
ABAH	56.6	37	Pg	19:12:31.68			0.42
			Sg	12:38.61			-0.55
PSZ	66.4	273	Pg	19:12:33.13			0.13
			Sg	12:41.62			-0.64
KECS	69.6	342	Pg	19:12:33.89			0.32
			Sg	12:42.72			-0.56
DRGR	190.2	130	Sn	19:13:14.86			-0.16

Földrengés paraméterek

86.

2019-02-07 time: 3:22:50.24 UTC ML= 0.8
lat: 48.181N lon: 18.952E h= 10.0 km
erh= 3.7km erz= 5.3km
nr= 7 gap=135 rms=0.59
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr	mn	sec	res
A336	6.7	31	PgD	3:22:52.85			0.45
			Sg	22:54.09			0.01
VYHS	35.8	346	Pg	3:22:57.07			0.18
			Sg	23:01.33			-0.74
A338	48.4	248	Pg	3:22:59.53			0.47
			Sg	23:05.38			-0.56
PSZ	76.1	113	Sg	3:23:12.95			-1.68

87.

2019-02-07 time: 8:10:45.73 UTC ML= 0.6
lat: 47.068N lon: 18.005E h= 0.0 km
erh= 0.9km erz= 253km
nr= 5 gap=135 rms=0.11
Locality: Balatonfűzfő
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKST	21.3	6	Pg	8:10:49.47			-0.07
			Sg	10:52.38			-0.13
MPLH	37.1	288	Sg	8:10:57.60			0.07
CSKK	38.1	30	Sg	8:10:58.06			0.23
PKSM	106.9	153	Sg	8:11:19.71			0.00

88.

2019-02-07 time: 9:52:48.09 UTC ML= 2.1
lat: 48.500N lon: 17.389E h= 0.0 km
erh= 1.3km erz= 355km
nr= 6 gap=178 rms=0.21
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
SMOL	3.3	63	Pg	9:52:48.57			-0.10
			Sg	52:49.20			0.07
KRUC	96.1	311	Sg	9:53:18.57			-0.07
VRAC	107.1	327	Sg	9:53:22.04			-0.10
CONA	130.1	241	Pg	9:53:11.69			0.36
			Sg	53:29.12			-0.33

89.

2019-02-07 time: 9:55:50.04 UTC ML= 1.5
lat: 47.844N lon: 19.129E h= 0.0 km
erh= 0.7km erz= 3.5km
nr= 13 gap=112 rms=0.33
Locality: Szendehegy
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PENC	12.9	117	Pg	9:55:52.35			0.00
			Sg	55:54.23			0.08
BUD	40.8	191	Sg	9:56:03.15			0.13
A336	44.3	347	Pg	9:55:58.43			0.47
			Sg	56:03.82			-0.32
PSZ	57.9	82	Pg	9:56:00.38			0.00
			Sg	56:08.32			-0.12
PKSG	74.9	228	Sg	9:56:13.89			0.04
VYHS	75.5	343	Sg	9:56:13.49			-0.55
CSKK	84.4	231	Sg	9:56:17.49			0.62

Földrengés paraméterek

PKST 105.0 232 Sg 9:56:23.26 -0.15
PKB1 120.5 192 Sg 9:56:27.98 -0.38
PKB5 142.0 192 Sn 9:56:32.98 -1.11

90.

2019-02-07 time: 9:57:14.53 UTC ML= 1.6
lat: 48.601N lon: 20.782E h= 0.0 km
erh= 4.2km erz= 5.1km
nr= 9 gap=166 rms=0.63
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	25.5	239	Pg	9:57:19.57			0.49
			Sg	57:22.33			-0.31
ABAH	47.9	135	Pg	9:57:23.44			0.36
			Sg	57:29.64			-0.12
PSZ	100.5	221	Pg	9:57:32.83			0.35
			Sg	57:45.95			-0.54
KOLS	115.7	71	Sg	9:57:49.79			-1.50
VYHS	144.2	265	Pn	9:57:39.92			0.38
			Sn	57:57.58			-1.47

91.

2019-02-07 time: 11:41:36.03 UTC ML= 1.2
lat: 46.125N lon: 18.037E h= 0.0 km
erh= 1.0km erz= 133km
nr= 7 gap=290 rms=0.09
Locality: Bükkösd
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KOVH	6.4	130	Pg	11:41:37.14			-0.02
			Sg	41:38.18			0.13
PKSV	31.1	148	Sg	11:41:45.62			-0.30
PKSM	47.7	78	Pg	11:41:44.62			0.07
			Sg	41:51.13			-0.06
MORH	48.0	78	Pg	11:41:44.62			0.02
			Sg	41:51.23			-0.06

92.

2019-02-07 time: 14:34:23.52 UTC ML= 1.7
lat: 46.398N lon: 21.240E h= 14.4 km
erh= 3.2km erz= 2.3km
nr= 15 gap=101 rms=0.78
Locality: Romania
Comments:

sta	dist	azm	phase	hr	mn	sec	res
SIRR	35.5	114	PgD	14:34:30.19			-0.17
			Sg	34:35.60			-0.09
AMBH	39.9	262	Pg	14:34:30.99			-0.11
			Sg	34:36.49			-0.51
BZS	91.6	161	P*	14:34:39.67			-0.19
			S*	34:50.38			-2.23
SURR	99.1	136	P*D	14:34:41.94			0.94
			S*	34:54.30			-0.32
DRGR	121.0	69	Pn	14:34:44.03			0.23
			Sn	34:58.23			-1.39
MARR	147.4	78	PnD	14:34:48.38			1.28
			Sn	35:05.10			-0.39
GZR	163.4	133	PnC	14:34:50.63			1.54
			Sn	35:09.50			0.46
PSZ	197.4	329	Sn	14:35:15.70			-0.88

Hypocenter Parameters

93.

2019-02-08 time: 1:13:34.83 UTC ML= 1.8
lat: 46.967N lon: 21.696E h= 10.0 km
erh= 2.1km erz= 1.6km
nr= 20 gap= 81 rms=0.82
Locality: Romania
Comments:

sta	dist	azm	phase	hr	mn	sec	res
BORR	15.3	26	PgC	1:13:38.62			0.52
			Sg	13:41.00			0.35
SIRR	77.8	182	PgC	1:13:49.03			0.20
			Sg	13:58.10			-1.65
DRGR	79.8	104	Pg	1:13:49.20			0.01
			Sg	13:59.74			-0.65
MESR	97.4	78	PgC	1:13:52.13			-0.18
			Sg	14:05.40			-0.55
AMBH	101.0	227	Sg	1:14:05.87			-1.23
MARR	113.3	107	PnD	1:13:54.91			0.20
			Sn	14:09.30			-0.92
SURR	138.8	166	PnC	1:13:59.18			1.29
			Sn	14:15.60			-0.28
TRPA	144.1	26	Sn	1:14:15.96			-1.10
BZS	150.2	182	Sn	1:14:18.49			0.08
ABAH	151.7	347	Pn	1:14:00.66			1.16
			Sn	14:18.25			-0.50
PSZ	172.2	308	Sn	1:14:23.23			-0.07
GZR	193.8	154	Sn	1:14:29.90			1.82
ARCR	202.5	86	Sn	1:14:34.34			4.33*
HERR	238.5	166	Sn	1:14:40.10			2.10

94.

2019-02-08 time: 8:30:51.48 UTC ML= 1.0
lat: 47.122N lon: 18.119E h= 0.0 km
erh= 1.4km erz= 516km
nr= 11 gap=124 rms=0.41
Locality: Berhida
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKST	16.5	337	PgU	8:30:54.07			-0.36
			Sg	30:56.45			-0.28
TIH	30.1	215	Sg	8:31:01.20			0.15
PKSG	36.3	34	Pg	8:30:58.02			0.05
			Sg	31:03.39			0.36
MPLH	44.3	277	Pg	8:30:59.82			0.43
			Sg	31:05.29			-0.27
MORH	108.5	158	Pg	8:31:11.14			0.29
			Sg	31:25.06			-0.89
PKSM	108.8	158	Pg	8:31:11.21			0.30
			Sg	31:24.99			-1.07

95.

2019-02-08 time: 9:01:13.01 UTC ML= 1.6
lat: 48.618N lon: 20.757E h= 0.0 km
erh= 4.7km erz= 7.3km
nr= 7 gap=181 rms=0.61
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	25.1	233	Pg	9:01:17.56			0.08
			Sg	01:21.17			0.20
ABAH	50.6	135	Pg	9:01:22.48			0.44
			Sg	01:28.71			-0.37
PSZ	100.8	219	Sg	9:01:44.12			-0.93
KOLS	116.8	73	Sg	9:01:48.54			-1.59
A336	137.0	252	Pn	9:01:37.64			0.51

Hypocenter Parameters

96.

2019-02-08 time: 9:10:09.94 UTC ML= 1.8
lat: 46.988N lon: 22.267E h= 0.0 km
erh= 3.7km erz= 4.4km
nr= 21 gap=122 rms=1.35
Locality: Romania
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
DRGR	40.3	123	Pg	9:10:18.15	1.02
			Sg	10:23.12	0.38
MARR	73.7	118	PgC	9:10:23.86	0.76
			Sg	10:32.50	-0.86
SIRR	92.6	210	PgC	9:10:26.79	0.32
			Sg	10:37.90	-1.47
CJR	106.0	107	PgC	9:10:30.13	1.26
			Sg	10:42.00	-1.64
TRPA	128.7	9	Pg	9:10:32.96	0.04
			Sg	10:47.63	-3.21
DEV	132.2	158	PnD	9:10:33.47	0.02
			Sn	10:46.90	-4.89
SURR	137.6	185	Sn	9:10:49.20	-3.80
			Pn	9:10:37.72	0.74
BZS	160.4	198	Sn	10:57.68	-0.39
			Pn	9:10:37.51	0.00
ABAH	164.7	332	PnC	9:10:40.76	1.15
			Sn	11:01.60	-1.15
GZR	181.5	167	PnC	9:10:44.30	1.55
			Sn	11:08.30	-0.05
BURA	233.8	73	PnC	9:10:49.20	3.08

97.

2019-02-08 time: 9:16:09.85 UTC ML= 1.9
lat: 47.361N lon: 18.423E h= 0.0 km
erh= 3.9km erz= ***km
nr= 14 gap= 76 rms=1.41
Locality: Gánt
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	4.2	324	PgU	9:16:10.67	0.07
			Sg	16:11.26	0.07
CSKK	12.3	271	Pg	9:16:11.90	-0.14
			Sg	16:13.79	0.03
NADP	18.6	128	Pg	9:16:16.52	3.34
PKST	31.5	249	Pg	9:16:15.97	0.49
MPLH	70.2	252	Pg	9:16:23.05	0.67
PKB4	97.1	172	Sg	9:16:41.43	0.72
A336	106.2	24	Sg	9:16:43.47	-0.12
PSZ	126.8	61	Sg	9:16:48.56	-1.58
MORH	128.4	172	Sg	9:16:47.56	-3.10
PKSM	128.8	173	Pg	9:16:32.29	-0.56
			Sg	16:47.53	-3.26
VYHS	129.7	14	Sg	9:16:49.39	-1.69

98.

2019-02-08 time: 11:57:36.43 UTC ML= 1.4
lat: 48.653N lon: 19.445E h= 0.6 km
erh= 1.1km erz= 120km
nr= 8 gap=215 rms=0.76
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr mn sec	res
VYHS	48.3	249	Pg	11:57:45.06	0.01
			Sg	57:50.48	-1.29
A336	57.2	215	Pg	11:57:47.17	0.54
			Sg	57:53.59	-1.00
KECS	79.1	104	Pg	11:57:51.06	0.51
			Sg	58:00.45	-1.11

Földrengés paraméterek

PSZ 88.2 158 Pg 11:57:53.09 0.91
Sg 58:03.74 -0.73

99.

2019-02-08 time: 11:58:30.47 UTC ML= 1.3
lat: 47.532N lon: 18.517E h= 0.0 km
erh= 3.3km erz= 4.3km
nr= 8 gap=145 rms=0.20
Locality: Szárliget
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	18.3	211	Pg	11:58:33.72	-0.03
			Sg	58:36.35	0.05
CSKK	27.0	226	Pg	11:58:34.93	-0.37
			Sg	58:39.55	0.49
PKST	47.5	230	Pg	11:58:38.98	0.03
			Sg	58:45.39	-0.18
VYHS	109.5	13	Pg	11:58:50.11	0.08
PKB3	133.6	157	Pn	11:58:54.34	0.18

100.

2019-02-09 time: 2:02:51.19 UTC ML= 0.8
lat: 47.294N lon: 17.725E h= 0.4 km
erh= 2.5km erz= 161km
nr= 9 gap=143 rms=0.61
Locality: Bakonykoppány
Comments:

sta	dist	azm	phase	hr mn sec	res
MPLH	19.7	226	Pg	2:02:53.92	-0.79
			Sg	02:56.85	-0.60
PKST	23.7	99	Pg	2:02:55.23	-0.20
			Sg	02:58.24	-0.50
EGYH	32.7	295	Sg	2:03:02.30	0.71
CSKK	41.2	79	Sg	2:03:04.61	0.32
TIH	45.6	164	Pg	2:03:00.36	1.02
PKSG	51.5	78	Pg	2:03:00.69	0.31
			Sg	03:07.09	-0.46

101.

2019-02-09 time: 23:42:30.86 UTC ML= 1.9
lat: 46.889N lon: 21.501E h= 10.0 km
erh= 2.2km erz= 1.8km
nr= 21 gap= 89 rms=0.85
Locality: Mezőgyán
Comments:

sta	dist	azm	phase	hr mn sec	res
BORR	31.1	44	PgC	23:42:36.97	0.27
			Sg	42:42.50	1.25
SIRR	70.2	170	PgC	23:42:44.13	0.61
			Sg	42:53.00	-0.39
AMBH	84.4	225	Pg	23:42:46.60	0.57
			Sg	42:56.93	-0.94
DRGR	92.9	97	Pg	23:42:47.03	-0.52
			Sg	42:58.98	-1.59
MESR	113.8	75	PnD	23:42:50.58	-0.23
			Sn	43:04.60	-1.77
MARR	125.8	101	PnC	23:42:52.69	0.39
			Sn	43:07.00	-2.02
BZS	141.7	176	Pn	23:42:54.86	0.57
			Sn	43:12.20	-0.36
ABAH	157.7	353	Pn	23:42:56.62	0.34
			Sn	43:15.11	-0.99
TRPA	158.6	30	Sn	23:43:16.50	0.19
CJR	161.3	97	PnD	23:42:58.52	1.80
			Sn	43:17.80	0.90
PSZ	166.8	313	Sn	23:43:17.66	-0.46

Földrengés paraméterek

GZR 193.3 149 Sn 23:43:24.30 0.30

102.

2019-02-09 time: 23:45:12.35 UTC ML= 2.2
lat: 48.159N lon: 22.879E h= 7.7 km
erh= 3.9km erz= 2.8km
nr= 23 gap=137 rms=1.28
Locality: Ukraine
Comments:

sta	dist	azm	phase	hr mn sec	res
TRPA	25.5	263	Pg	23:45:18.19	1.09
			Sg	45:22.10	1.29
BMR	71.1	139	PgC	23:45:24.69	-0.42
			Sg	45:33.60	-1.47
KOLS	97.0	333	Pg	23:45:28.79	-0.94
			Sg	45:40.95	-2.34
MESR	112.3	177	PnC	23:45:32.62	0.21
			Sn	45:47.10	-0.95
ABAH	122.8	277	Pn	23:45:32.72	-0.99
			Sn	45:48.90	-1.48
DRGR	152.5	185	PnD	23:45:38.75	1.33
			Sn	45:55.80	-1.18
ARCR	162.9	137	PnD	23:45:39.48	0.77
			Sn	45:59.00	-0.27
MARR	165.9	174	PnC	23:45:40.83	1.75
			Sn	45:59.10	-0.83
CJR	169.6	161	PnC	23:45:41.66	2.11
			Sn	46:01.10	0.33
KECS	181.1	281	Sn	23:46:05.23	1.90
STHS	184.4	319	Sn	23:46:06.59	2.53
BURA	185.0	109	PnD	23:45:42.22	0.75
			Sn	46:04.00	-0.19
SIRR	229.7	204	PnC	23:45:43.78	-3.26

103.

2019-02-10 time: 2:24:37.37 UTC ML= 0.2
lat: 47.381N lon: 18.113E h= 6.6 km
erh= 5.4km erz= 6.1km
nr= 6 gap=243 rms=0.10
Locality: Nagyveleg
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	11.3	100	Pg	2:24:39.72	0.01
			Sg	24:41.25	-0.28
PKST	14.8	204	Pg	2:24:40.30	0.03
			Sg	24:42.53	0.01
PKSG	21.0	87	Pg	2:24:41.25	-0.05
			Sg	24:44.54	0.18

104.

2019-02-11 time: 9:18:27.72 UTC ML= 1.4
lat: 48.599N lon: 20.738E h= 0.0 km
erh= 5.7km erz= ***km
nr= 5 gap=196 rms=0.49
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	22.7	235	Pg	9:18:32.21	0.44
			Sg	18:34.90	-0.02
ABAH	50.1	132	Sg	9:18:43.99	0.34
PSZ	98.3	220	Sg	9:18:58.10	-0.85
KOLS	118.8	72	Sg	9:19:04.97	-0.51

Hypocenter Parameters

105.

2019-02-11 time: 11:00:05.90 UTC ML= 1.5
lat: 47.854N lon: 19.166E h= 0.0 km
erh= 2.8km erz= 821km
nr= 7 gap=112 rms=0.57
Locality: Ósagárd
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	11.2	129	Pg	11:00:08.07	0.17
			Sg	00:09.35	-0.11
A336	43.9	343	Pg	11:00:13.51	-0.24
			Sg	00:19.29	-0.57
PSZ	54.9	83	Sg	11:00:23.20	-0.16
VYHS	75.2	341	Pg	11:00:20.36	1.02
PKSG	77.8	229	Sg	11:00:29.71	-0.91

106.

2019-02-11 time: 14:23:10.74 UTC ML= 1.6
lat: 48.598N lon: 21.510E h= 0.0 km
erh= 0.8km erz= 155km
nr= 6 gap=206 rms=0.09
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	39.1	211	Pg	14:23:17.59	-0.14
			Sg	23:23.35	0.18
KOLS	67.4	56	Pg	14:23:22.80	0.03
			Sg	23:32.15	-0.01
TRPA	92.3	124	Pg	14:23:27.27	0.04
			Sg	23:40.07	-0.02

107.

2019-02-12 time: 12:23:35.56 UTC ML= 1.6
lat: 48.603N lon: 20.797E h= 0.0 km
erh= 1.8km erz= 2.7km
nr= 8 gap=166 rms=0.31
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	26.5	240	Pg	12:23:40.46	0.16
			Sg	23:44.43	0.44
ABAH	47.3	136	Pg	12:23:44.28	0.28
			Sg	23:50.45	-0.13
PSZ	101.4	221	Pg	12:23:53.61	-0.05
			Sg	24:07.22	-0.56
KOLS	114.6	71	Sg	12:24:11.79	-0.19
VYHS	145.3	265	Sn	12:24:19.62	-0.70

108.

2019-02-13 time: 8:04:12.33 UTC ML= 1.8
lat: 48.022N lon: 16.586E h= 0.0 km
erh= 2.4km erz= 4.0km
nr= 12 gap=120 rms=0.75
Locality: Austria
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
SOP	37.7	183	Sg	8:04:24.03	-0.30
RONA	41.9	211	Pg	8:04:19.82	0.01
			Sg	04:24.25	-1.40
CONA	55.0	259	Pg	8:04:22.93	0.77
			Sg	04:30.81	0.98
EGYH	87.5	140	Sg	8:04:41.10	0.94
KRUC	116.5	353	Pg	8:04:33.47	0.34

			Sg	04:48.53	-0.82
ARSA	117.2	223	Sg	8:04:48.69	-0.90
MPLH	118.8	143	Sg	8:04:49.09	-1.02
VRAC	143.0	0	Sn	8:04:56.02	-0.58
CSKK	145.5	120	Sn	8:04:57.63	0.48

2019-02-13 time: 8:53:20.56 UTC ML= 1.9
lat: 45.603N lon: 17.347E h= 12.5 km
erh= 1.5km erz= 1.4km
nr= 17 gap=122 rms=0.39
Locality: Croatia
Comments:

2019-02-13 time: 9:02:30.80 UTC ML= 1.7
lat: 47.876N lon: 19.166E h= 0.0 km
erh= 2.3km erz= 426km
nr= 7 gap=203 rms=0.29
Locality: Nötincs
Comments: probably explosion

```

2019-02-13 time: 9:25:33.22 UTC ML= 1.2
lat: 47.304N lon: 17.634E h= 0.0 km
erh= 1.7km erz= 385km
nr= 5 gap=160 rms=0.17
Locality: Homokbödöge
Comments: probably explosion

```

sta	dist	azm	phase	hr	mn	sec	res
MPLH	16.5	206	Pg	9:25:36.11			-0.05
			Sg	25:38.49			0.03
EGYH	26.1	299	Pg	9:25:37.99			0.11
PKST	30.7	99	Pg	9:25:38.47			-0.23
			Sg	25:43.34			0.37

```

2019-02-13 time: 9:31:15.96 UTC ML= 1.3
lat: 47.313N lon: 17.630E h= 0.0 km
erh= 0.9km erz= 238km
nr= 7 gap=144 rms=0.16
Locality: Homokbödöge
Comments: probably explosion

```

```

2019-02-13  time: 10:37:10.48 UTC  ML= 1.6
lat: 47.330N lon: 18.449E h= 0.0 km
           erh= 1.8km      erz= 405km
nr= 8      gap=206        rms=0.29
Locality: Zámoly
Comments: probably explosion

```

```

2019-02-13 time: 10:56:14.04 UTC ML= 1.3
lat: 47.336N lon: 18.443E h= 0.0 km
           erh= 1.0km      erz= 7.5km
nr= 10      gap=114      rms=0.32
Locality: Zámoly
Comments: probably explosion

```

```

2019-02-13  time: 10:59:33.95 UTC    ML= 1.9
lat: 48.146N lon: 16.873E h= 0.0 km
           erh= 2.0km      erz= 2.3km
nr= 13      gap= 89      rms=0.63
Locality: Austria
Comments: probably explosion

```

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		Sg	11:00:07.78	-0.44	
MPLH	119.4	155	Sg	10:60:11.47	-0.44
VRAC	130.9	351	Pn	10:59:57.04	-0.26
		Sn	11:00:13.96	-1.56	
CSKK	135.6	130	Sn	10:60:13.23	-3.33
ARSA	142.0	226	Pn	10:59:59.10	0.41
		Sn	11:00:17.22	-0.77	
VYHS	150.6	75	Pn	10:60:00.75	0.99
MORC	187.9	15	Sn	10:60:28.42	0.25

116.

2019-02-13 time: 13:15:20.40 UTC ML= 1.1
lat: 46.125N lon: 18.042E h= 0.0 km
erh= 1.6km erz= 315km
nr= 9 gap=231 rms=0.24
Locality: Hetvehely
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KOVH	6.0	133	Pg	13:15:21.66			0.18
			Sg	15:22.67			0.35
PKSV	30.9	148	Pg	13:15:25.52			-0.40
			Sg	15:30.11			-0.12
PKSM	47.3	78	Pg	13:15:28.87			0.03
			Sg	15:35.06			-0.36
MORH	47.6	78	Pg	13:15:29.11			0.21
			Sg	15:35.28			-0.24
PKS9	54.5	20	Pg	13:15:30.26			0.13

117.

2019-02-14 time: 11:01:37.72 UTC ML= 1.3
lat: 47.938N lon: 19.456E h= 0.0 km
erh= 0.8km erz= 191km
nr= 5 gap=140 rms=0.09
Locality: Szanda
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PENC	21.0	218	Pg	11:01:41.55			0.09
			Sg	01:44.25			-0.13
PSZ	32.9	94	Pg	11:01:43.64			0.05
			Sg	01:48.06			-0.10
A336	47.3	314	Sg	11:01:52.70			-0.04

118.

2019-02-14 time: 11:34:23.58 UTC ML= 1.7
lat: 47.928N lon: 19.404E h= 0.0 km
erh= 1.2km erz= 373km
nr= 7 gap=126 rms=0.25
Locality: Becske
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PENC	17.8	211	Pg	11:34:26.86			0.10
			Sg	34:29.01			-0.24
PSZ	36.7	92	Pg	11:34:30.25			0.13
			Sg	34:35.10			-0.13
A336	45.4	318	Pg	11:34:31.72			0.03
			Sg	34:38.23			0.21
VYHS	75.8	326	Sg	11:34:46.52			-1.15

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119.

2019-02-14 time: 11:52:39.77 UTC ML= 1.5
lat: 48.387N lon: 18.432E h= 0.0 km
erh= 3.2km erz= 6.7km
nr= 10 gap=144 rms=0.69
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
VYHS	32.2	68	Pg	11:52:45.84			0.32
			Sg	52:49.85			-0.15
A336	45.4	112	Pg	11:52:49.04			1.17
			Sg	52:53.61			-0.58
PENC	91.7	136	Sg	11:53:08.33			-0.57
PKSG	110.6	182	Sg	11:53:14.85			-0.09
PSZ	120.6	116	Sg	11:53:17.47			-0.64
PKST	128.9	193	Sg	11:53:20.02			-0.70
MORC	167.7	337	Pn	11:53:08.10			0.39
			Sn	53:28.07			-1.44

120.

2019-02-15 time: 1:33:30.19 UTC ML= 0.6
lat: 48.308N lon: 18.470E h= 0.1 km
erh= 9.1km erz= ***km
nr= 5 gap=160 rms=0.79
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr	mn	sec	res
VYHS	34.1	53	Pg	1:33:36.76			0.48
			Sg	33:39.53			-1.50
A336	40.2	102	Pg	1:33:38.07			0.71
			Sg	33:42.02			-0.93
A337	51.0	262	Sg	1:33:46.19			-0.20

121.

2019-02-15 time: 4:42:59.90 UTC ML= 2.1
lat: 48.451N lon: 17.231E h= 0.0 km
erh= 3.0km erz= 6.4km
nr= 10 gap=107 rms=0.91
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
SMOL	16.2	65	Pg	4:43:03.71			0.91
			Sg	43:06.69			1.64
KRUC	91.6	318	Pg	4:43:16.31			0.05
			Sg	43:28.26			-0.75
RONA	108.8	220	Pg	4:43:20.04			0.71
			Sg	43:35.11			0.63
CONA	117.2	240	Sg	4:43:36.39			-0.78
VYHS	118.8	88	Pg	4:43:20.70			-0.42
			Sg	43:36.44			-1.23
PKST	145.6	156	Sn	4:43:42.82			-1.91

122.

2019-02-15 time: 8:25:35.51 UTC ML= 2.2
lat: 47.008N lon: 22.238E h= 0.0 km
erh= 2.5km erz= 2.3km
nr= 27 gap=161 rms=0.91
Locality: Romania
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
DRGR	43.4	124	Pg	8:25:43.48			0.23
			Sg	25:48.26			-1.03
MESR	56.3	74	PgD	8:25:45.78			0.22

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			Sg	25:53.20	-0.20
MARR	76.7	119	PgC	8:25:49.12	-0.08
			Sg	25:57.60	-2.28
SIRR	93.5	208	PgC	8:25:53.38	1.17
			Sg	26:04.60	-0.63
CJR	108.8	108	PgC	8:25:55.64	0.70
BMR	120.5	52	PgD	8:25:57.41	0.39
			Sg	26:13.90	0.10
TRPA	126.8	10	Pg	8:25:56.53	-1.62
SURR	139.7	184	PnC	8:26:00.14	0.18
			Sn	26:16.80	-2.23
ARCR	161.0	87	Pn	8:26:03.87	1.25
			Sn	26:23.57	-0.20
TIM	161.6	209	Sn	8:26:25.10	1.21
BZS	161.9	197	Pn	8:26:02.38	-0.35
			Sn	26:23.35	-0.62
GZR	184.3	167	PnC	8:26:06.61	1.09
			Sn	26:28.80	-0.12
LOT	209.9	146	Sn	8:26:34.20	-0.41
BURA	235.1	73	PnC	8:26:13.66	1.80
			Sn	26:39.90	-0.32
HERR	236.8	177	Sn	8:26:40.30	-0.30
VOIR	278.5	129	PnC	8:26:18.54	1.27
			Sn	26:50.20	0.36

123.

2019-02-15 time: 10:11:30.03 UTC ML= 1.6
lat: 47.340N lon: 18.400E h= 0.0 km
erh= 1.1km erz= 2.2km
nr= 7 gap=157 rms=0.32
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	5.9	353	Pg	10:11:31.41	0.34
			Sg	11:32.01	0.12
CSKK	10.8	284	Pg	10:11:31.94	-0.02
			Sg	11:33.22	-0.26
PKST	29.1	252	Sg	10:11:39.50	0.24
PKSM	126.7	172	Sg	10:12:09.97	-0.33
VYHS	132.4	14	Sn	10:12:11.04	-0.90

124.

2019-02-15 time: 11:22:27.15 UTC ML= 1.1
lat: 47.220N lon: 18.279E h= 0.0 km
erh= 1.2km erz= 169km
nr= 7 gap=240 rms=0.11
Locality: Iszkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	15.9	355	Pg	11:22:30.18	0.19
			Sg	22:32.04	-0.17
PKST	19.0	283	Pg	11:22:30.56	0.02
			Sg	22:33.14	-0.04
PKSG	20.9	24	Pg	11:22:30.73	-0.14
			Sg	22:33.82	0.04
MPLH	56.3	264	Pg	11:22:37.23	0.03

125.

2019-02-16 time: 5:52:14.84 UTC ML= 1.6
lat: 46.321N lon: 17.288E h= 14.1 km
erh= 2.1km erz= 1.4km
nr= 24 gap= 70 rms=0.73
Locality: Somogyuszob
Comments:

sta	dist	azm	phase	hr mn sec	res
BEHE	42.8	293	Sg	5:52:27.88	-1.28

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KOVH	67.8	112	Pg	5:52:27.94	0.73
			Sg	52:34.90	-1.95
KOGS	81.0	280	Pg	5:52:30.14	0.61
			Sg	52:39.84	-1.15
PKS9	81.7	69	Pg	5:52:29.89	0.24
			Sg	52:39.74	-1.46
PKSV	88.7	123	P*	5:52:31.41	0.65
			S*	52:42.79	-0.38
PKB4	103.1	79	Sn	5:52:46.65	-0.37
PKSM	105.1	97	Pn	5:52:32.48	-0.69
			Sn	52:46.11	-1.35
MORH	105.2	96	Pn	5:52:32.84	-0.35
			Sn	52:46.54	-0.96
PTJ	112.9	246	Pn	5:52:34.85	0.70
			Sn	52:48.33	-0.88
PKB5	115.3	75	Sn	5:52:49.69	-0.06
PKST	118.9	29	Sn	5:52:50.60	0.07
PKB1	126.4	66	Pn	5:52:36.75	0.92
			Sn	52:52.71	0.52
GROS	138.2	276	Sn	5:52:55.52	0.69

126.

2019-02-16 time: 6:16:38.59 UTC ML= 1.8
lat: 46.303N lon: 17.316E h= 13.2 km
erh= 1.9km erz= 1.5km
nr= 29 gap= 79 rms=0.78
Locality: Ötvöskőnyi
Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	65.1	112	Pg	6:16:50.33	-0.11
			Sg	16:58.09	-1.60
PKS9	80.4	67	Pg	6:16:53.85	0.71
			Sg	17:05.04	0.55
KOGS	83.6	281	Pg	6:16:53.37	-0.33
			Sg	17:02.95	-2.53
PKSV	85.8	122	Pg	6:16:54.82	0.72
			Sg	17:06.45	0.26
MPLH	97.9	10	S*	6:17:08.63	-0.94
PKB4	101.3	78	S*	6:17:10.26	-0.25
PKSM	102.7	96	P*	6:16:56.06	-0.67
			S*	17:09.49	-1.38
MORH	102.9	95	P*	6:16:56.03	-0.72
			S*	17:09.55	-1.37
PKB5	113.8	73	Sn	6:17:13.26	-0.11
PTJ	114.2	247	Pn	6:16:57.96	-0.22
			Sn	17:12.71	-0.75
PKST	119.6	27	Pn	6:16:59.37	0.52
			Sn	17:13.94	-0.71
EGYH	123.8	1	Sn	6:17:16.02	0.42
PKB1	125.2	65	Pn	6:17:00.43	0.87
			Sn	17:16.53	0.62
CRES	153.3	250	Pn	6:17:04.74	1.68
			Sn	17:24.13	1.98
PKB2	153.5	74	Sn	6:17:24.85	2.66

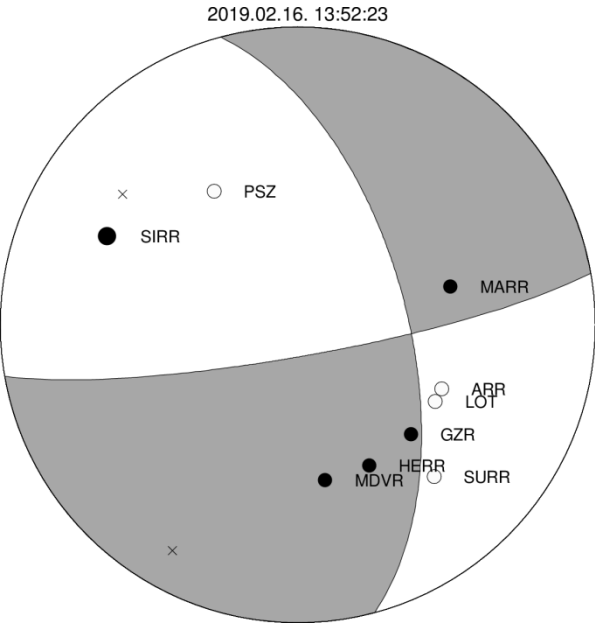
127.

2019-02-16 time: 13:52:23.34 UTC ML= 2.4
lat: 46.376N lon: 21.321E h= 16.3 km
erh= 2.0km erz= 1.7km
nr= 32 gap= 99 rms=0.76
Locality: Romania
Comments:

sta	dist	azm	phase	hr mn sec	res
SIRR	28.8	115	PgC	13:52:29.09	-0.16
			Sg	52:33.80	-0.05
BZS	87.5	165	P*	13:52:38.31	-0.56
			S*	52:49.24	-1.74
SURR	93.0	138	P*D	13:52:39.64	-0.07
			S*	52:50.90	-1.58

Földrengés paraméterek

DRGR	116.1	67	Pn	13:52:42.66	-0.11
			Sn	52:57.16	-0.76
PKSN	125.5	297	Pn	13:52:43.62	-0.31
PKS6	137.1	280	Pn	13:52:44.90	-0.49
			Sn	53:00.50	-2.08
MARR	141.9	76	PnC	13:52:47.38	1.40
			Sn	53:03.00	-0.64
GZR	157.2	134	PnC	13:52:49.37	1.48
			Sn	53:07.70	0.67
PKS2	162.5	275	Pn	13:52:49.42	0.87
PKB2	162.9	282	Pn	13:52:48.78	0.18
			Sn	53:07.96	-0.35
PKB3	163.6	272	Sn	13:53:08.10	-0.36
MDVR	179.9	170	PnC	13:52:51.09	0.37
			Sn	53:11.80	-0.27
FRGS	181.2	220	Pn	13:52:51.70	0.81
			Sn	53:13.10	0.73
HERR	186.9	153	PnC	13:52:52.69	1.10
			Sn	53:14.20	0.58
PKB1	199.1	283	Pn	13:52:52.65	-0.46
PSZ	202.7	328	PnD	13:52:53.93	0.37
PKSM	207.3	265	Sn	13:53:19.12	0.97
LOT	216.2	119	PnD	13:52:55.75	0.50
			Sn	53:20.30	0.17
ARR	280.6	114	PnD	13:53:03.44	0.17
			Sn	53:35.10	0.68
VOIR	307.6	110	Sn	13:53:40.80	0.39*



128.

2019-02-16 time: 21:20:11.62 UTC ML= 0.2
lat: 47.349N lon: 18.181E h= 2.0 km
erh=19.8km erz=13.9km
nr= 6 gap=205 rms=0.33
Locality: Nagyveleg
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	6.2	75	Pg	21:20:12.69	-0.10
			Sg	20:13.81	0.11
PKST	14.9	228	Pg	21:20:14.07	-0.24
			Sg	20:16.41	0.01
PKSG	16.6	73	Pg	21:20:15.18	0.58
			Sg	20:16.44	-0.49

Hypocenter Parameters

129.

2019-02-17 time: 14:40:44.30 UTC ML= 2.7
lat: 46.313N lon: 17.296E h= 15.8 km
erh= 0.9km erz= 0.7km
nr= 55 gap= 60 rms=0.52
Locality: Somogyszob
Comments: felt 4 EMS

sta	dist	azm	phase	hr mn sec	res
BEHE	43.7	294	Pg	14:40:52.58	-0.02
			Sg	40:58.83	-0.23
KOVH	66.9	112	PgD	14:40:56.43	-0.15
			Sg	41:04.55	-1.60
TIH	79.7	35	P*	14:40:58.32	-0.37
			S*	41:09.51	-0.40
PKS9	81.4	68	P*	14:40:59.12	0.16
			S*	41:10.65	0.26
KOGS	81.8	281	P*	14:40:58.50	-0.52
			S*	41:09.16	-1.34
PKSV	87.7	123	P*	14:41:00.26	0.34
			S*	41:12.78	0.68
MPLH	97.1	11	P*	14:41:01.27	-0.07
			S*	41:13.97	-0.65
PKB4	102.6	79	Pn	14:41:03.17	1.06
			Sn	41:16.34	0.33
PKSM	104.3	96	Pn	14:41:02.11	-0.22
			Sn	41:15.52	-0.87
MORH	104.5	96	Pn	14:41:02.15	-0.20
			Sn	41:15.25	-1.18
PTJ	113.2	246	Pn	14:41:03.73	0.30
			Sn	41:18.05	-0.30
ZAG	114.2	242	Pn	14:41:04.41	0.85
			Sn	41:18.40	-0.18
PKB5	115.0	74	Pn	14:41:03.49	-0.16
			Sn	41:18.11	-0.64
PKST	119.3	28	Pn	14:41:04.59	0.40
			Sn	41:19.55	-0.16
PKB1	126.1	65	Pn	14:41:04.76	-0.29
GROS	139.0	277	Pn	14:41:06.35	-0.30
			Sn	41:22.60	-1.48
PKSG	146.1	35	Pn	14:41:08.13	0.59
PKB3	146.6	85	Pn	14:41:08.15	0.55
			Sn	41:25.10	-0.68
PKS2	148.8	82	Pn	14:41:08.12	0.25
			Sn	41:26.38	0.13
CRES	152.3	249	Pn	14:41:08.32	0.02
			Sn	41:27.45	0.43
PKB2	154.7	75	Pn	14:41:08.44	-0.17
			Sn	41:30.96	3.40*
SOP	162.3	340	Pn	14:41:09.31	-0.25
			Sn	41:30.46	1.20
ARSA	170.8	308	Pn	14:41:11.20	0.58
PERS	171.2	282	Pn	14:41:10.71	0.05
			Sn	41:30.06	-1.16
CONA	210.0	329	Pn	14:41:17.04	1.54
FRGS	235.5	124	Pn	14:41:18.88	0.20
VYHS	268.9	26	Pn	14:41:23.45	0.60
MOA	286.6	307	Pn	14:41:26.37	1.32
			Sn	41:57.06	0.23
KBA	314.0	286	Pn	14:41:28.78	0.31*
			Sn	42:03.36	0.44*
BBLs	318.7	149	Pn	14:41:30.29	1.24*
KHC	419.5	318	ePn	14:41:43.30	1.68*
			eSn	42:26.40	0.07*
KRLC	420.1	355	ePn	14:41:43.00	1.30*

130.

2019-02-17 time: 15:03:50.12 UTC ML= 2.0
lat: 46.310N lon: 17.294E h= 13.4 km
erh= 2.1km erz= 1.5km
nr= 20 gap= 82 rms=0.75
Locality: Somogyszob
Comments:

Hypocenter Parameters

Földrengés paraméterek

sta	dist	azm	phase	hr mn sec	res
KOVH	66.9	112	Pg	15:04:03.08	0.78
			Sg	04:10.12	-1.68
PKS9	81.7	68	Pg	15:04:05.05	0.15
			Sg	04:17.19	0.76
KOGS	81.8	281	Sg	15:04:14.80	-1.65
PKSV	87.7	122	P*	15:04:06.76	0.81
			S*	04:18.41	0.11
PKB4	102.8	78	S*	15:04:21.05	-1.36
PKSM	104.4	96	Pn	15:04:09.08	0.61
			Sn	04:21.41	-1.37
MORH	104.6	96	Sn	15:04:21.79	-1.03
PTJ	112.9	246	Pn	15:04:09.95	0.42
			Sn	04:24.22	-0.44
PKB5	115.2	74	Sn	15:04:25.33	0.16

131.

2019-02-18 time: 9:07:21.65 UTC ML= 1.1
lat: 47.570N lon: 18.414E h= 0.0 km
erh= 5.1km erz= ***km
nr= 8 gap=157 rms=0.94
Locality: Tatabánya
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	19.9	185	Sg	9:07:28.21	0.24
CSKK	25.7	207	Pg	9:07:26.90	0.66
			Sg	07:30.19	0.36
NADP	38.0	156	Sg	9:07:33.58	-0.14
PKST	44.9	220	Pg	9:07:28.42	-1.25
VYHS	107.5	17	Pg	9:07:42.19	1.35
			Sg	07:54.44	-1.38
PSZ	117.6	71	Sg	9:07:58.40	-0.64

132.

2019-02-19 time: 9:34:42.41 UTC ML= 1.4
lat: 47.306N lon: 18.328E h= 0.0 km
erh= 0.9km erz= 1.3km
nr= 9 gap=197 rms=0.15
Locality: Magyaralmás
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	8.1	321	Pg	9:34:43.91	0.04
			Sg	34:44.74	-0.26
PKSG	10.6	26	Pg	9:34:44.38	0.07
			Sg	34:45.97	0.18
PKST	22.9	257	Pg	9:34:46.41	-0.08
			Sg	34:49.92	0.24
PSZ	136.0	60	Pn	9:35:06.30	-0.11
VYHS	137.4	16	Pn	9:35:06.57	-0.01
			Sn	35:22.95	-2.48*

133.

2019-02-19 time: 9:47:29.38 UTC ML= 1.6
lat: 47.337N lon: 18.437E h= 0.0 km
erh= 3.6km erz= 4.8km
nr= 7 gap=241 rms=0.48
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	7.0	330	Pg	9:47:30.76	0.13
			Sg	47:31.55	-0.05
CSKK	13.6	282	Pg	9:47:32.07	0.26
			Sg	47:34.02	0.31
PKST	31.6	254	Pg	9:47:35.26	0.23
			Sg	47:38.45	-0.99
VYHS	132.0	13	Sn	9:48:09.74	-1.47

134.

2019-02-19 time: 9:48:17.12 UTC ML= 0.9
lat: 46.182N lon: 18.273E h= 0.0 km
erh= 1.5km erz= 270km
nr= 8 gap=210 rms=0.19
Locality: Mánfa
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	16.9	232	Pg	9:48:20.04	-0.10
			Sg	48:23.22	0.72
PKSM	28.6	83	Pg	9:48:22.12	-0.11
			Sg	48:26.20	-0.02
MORH	28.9	82	Pg	9:48:22.25	-0.03
			Sg	48:26.65	0.34
PKSV	32.6	183	Pg	9:48:23.02	0.07
			Sg	48:27.24	-0.25

135.

2019-02-19 time: 10:06:25.39 UTC ML= 1.8
lat: 48.628N lon: 20.741E h= 0.0 km
erh= 5.6km erz= 3.9km
nr= 8 gap=169 rms=0.64
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.8	230	Pg	10:06:30.29	0.47
			Sg	06:33.85	0.57
PSZ	100.9	219	Pg	10:06:43.55	0.15
			Sg	06:56.57	-0.89
KOLS	117.6	73	Sg	10:07:02.38	-0.38
A336	136.2	251	Sn	10:07:07.16	-0.98
VYHS	141.4	264	Pn	10:06:50.68	0.63
			Sn	07:08.06	-1.24

136.

2019-02-19 time: 10:22:06.07 UTC ML= 1.1
lat: 47.217N lon: 18.280E h= 0.0 km
erh= 1.6km erz= 244km
nr= 8 gap=241 rms=0.18
Locality: Iszkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	16.3	355	Pg	10:22:09.14	0.15
			Sg	22:11.08	-0.18
PKST	19.2	284	Pg	10:22:09.28	-0.21
			Sg	22:11.98	-0.18
PKSG	21.2	23	Pg	10:22:09.90	0.05
			Sg	22:12.85	0.05
MPLH	56.3	265	Pg	10:22:16.18	0.05
			Sg	22:24.74	0.76

137.

2019-02-20 time: 8:06:01.19 UTC ML= 0.9
lat: 47.208N lon: 18.175E h= 0.0 km
erh= 1.5km erz= 454km
nr= 9 gap=136 rms=0.34
Locality: Bakonykúti
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	12.0	298	Pg	8:06:03.58	0.24
			Sg	06:04.85	-0.17

Földrengés paraméterek

CSKK	18.4	21	Pg	8:06:04.26	-0.21
			Sg	06:07.10	0.08
PKSG	26.1	39	Pg	8:06:05.42	-0.43
			Sg	06:10.14	0.66
MORH	116.0	162	Pg	8:06:22.04	0.13
PKSM	116.4	162	Pg	8:06:22.12	0.15
			Sg	06:36.48	-1.71

138.

2019-02-20 time: 8:14:33.51 UTC ML= 1.1
lat: 47.224N lon: 18.163E h= 0.0 km
erh= 2.8km erz= 802km
nr= 8 gap=130 rms=0.57
Locality: Bakonykúti
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	10.5	292	Pg	8:14:35.73	0.35
			Sg	14:36.88	0.04
CSKK	17.1	26	Pg	8:14:36.53	-0.04
			Sg	14:39.34	0.38
PKSG	25.4	43	Pg	8:14:37.66	-0.39
PKB1	68.4	136	Pg	8:14:46.95	1.22
MORH	118.0	162	Pg	8:14:53.78	-0.80
PKSM	118.3	162	Pg	8:14:54.30	-0.34

139.

2019-02-20 time: 10:11:51.56 UTC ML= 1.7
lat: 45.991N lon: 16.074E h= 0.3 km
erh= 2.0km erz=78.1km
nr= 6 gap=310 rms=0.21
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
PTJ	13.5	222	Pg	10:11:53.68	-0.30
			Sg	11:55.58	-0.29
ZAG	19.0	199	Pg	10:11:55.04	0.08
			Sg	11:57.79	0.18
CRES	51.3	249	Pg	10:12:00.96	0.24
			Sg	12:07.89	0.02

140.

2019-02-20 time: 10:24:34.04 UTC ML= 0.6
lat: 47.210N lon: 18.262E h= 0.0 km
erh= 1.3km erz= 163km
nr= 6 gap=262 rms=0.10
Locality: Csór
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	17.0	360	Pg	10:24:37.16	0.09
			Sg	24:39.47	0.03
PKST	18.1	287	Pg	10:24:37.31	0.05
			Sg	24:39.54	-0.24
PKSG	22.4	26	Pg	10:24:37.94	-0.10
			Sg	24:41.20	0.04

141.

2019-02-21 time: 7:28:50.39 UTC ML= 0.8
lat: 47.111N lon: 18.013E h= 0.0 km
erh= 2.8km erz= 702km
nr= 5 gap=126 rms=0.31
Locality: Királyszentistván
Comments: probably explosion

Hypocenter Parameters

sta	dist	azm	phase	hr mn sec	res
PKST	16.6	6	Pg	7:28:52.86	-0.49
			Sg	28:55.95	0.29
CSKK	33.8	34	Sg	7:29:01.42	0.29
MPLH	36.5	280	Sg	7:29:02.18	0.18
PKSM	110.9	154	Pg	7:29:10.28	0.08

142.

2019-02-21 time: 9:12:44.13 UTC ML= 1.4
lat: 47.329N lon: 18.443E h= 0.0 km
erh= 2.4km erz= 4.7km
nr= 10 gap=160 rms=0.46
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	8.0	331	PgU	9:12:45.53	-0.03
			Sg	12:46.12	-0.55
CSKK	14.3	285	Pg	9:12:47.14	0.46
			Sg	12:48.61	-0.05
PKST	31.9	256	Pg	9:12:49.93	0.12
			Sg	12:53.49	-0.76
MORH	124.7	173	Sg	9:13:23.81	0.05
PKSM	125.1	173	Sg	9:13:23.53	-0.37
VYHS	132.8	13	Pn	9:13:08.30	0.58
			Sn	13:24.46	-1.67

143.

2019-02-21 time: 9:17:19.72 UTC ML= 1.5
lat: 48.684N lon: 19.946E h= 0.0 km
erh= 3.0km erz= 6.7km
nr= 12 gap=101 rms=0.98
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	45.7	119	Pg	9:17:28.73	0.86
			Sg	17:33.40	-0.83
VYHS	84.6	256	Pg	9:17:35.05	0.23
			Sg	17:44.74	-1.86
PSZ	85.2	183	Pg	9:17:36.28	1.34
			Sg	17:45.92	-0.89
NIE	86.0	18	Pg	9:17:35.10	0.02
			Sg	17:45.30	-1.76
A336	86.1	234	Sg	9:17:46.30	-0.80
ABAH	104.9	114	Pg	9:17:39.12	0.67
			Sg	17:51.77	-1.29
OJC	171.1	356	Sn	9:18:11.00	0.79

144.

2019-02-21 time: 9:32:14.20 UTC ML= 1.6
lat: 48.579N lon: 20.785E h= 0.0 km
erh= 1.5km erz= 3.4km
nr= 11 gap= 91 rms=0.43
Locality: Tornanádaska
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.6	244	Pg	9:32:18.49	-0.10
			Sg	32:22.16	0.15
ABAH	46.0	133	Pg	9:32:22.23	-0.19
			Sg	32:29.19	0.36
PSZ	98.9	222	Pg	9:32:32.17	0.32
			Sg	32:45.32	-0.31
NIE	99.6	340	Pg	9:32:32.48	0.50
			Sg	32:49.96	-1.19
KOLS	116.3	70	Pg	9:32:35.21	0.25
			Sg	32:49.96	-1.19
VYHS	144.3	266	Pn	9:32:38.81	-0.41
			Sn	32:56.78	-1.96

Hypocenter Parameters

Földrengés paraméterek

145.

2019-02-21 time: 9:54:56.50 UTC ML= 1.5
lat: 47.852N lon: 19.149E h= 0.0 km
erh= 0.9km erz= 334km
nr= 10 gap=111 rms=0.26
Locality: Ósagárd
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	12.1	125	Pg	9:54:58.55	-0.10
			Sg	55:00.21	-0.12
A336	43.8	345	Pg	9:55:04.05	-0.27
			Sg	55:09.97	-0.45
PSZ	56.2	83	Pg	9:55:06.44	-0.09
			Sg	55:14.99	0.63
VYHS	75.1	342	Pg	9:55:10.29	0.39
			Sg	55:20.43	0.08
PKSG	76.7	228	Sg	9:55:20.78	-0.08
			Pg	9:55:12.02	0.13

146.

2019-02-21 time: 10:18:02.28 UTC ML= 2.2
lat: 46.979N lon: 22.237E h= 0.0 km
erh= 1.4km erz= 1.5km
nr= 32 gap=124 rms=0.68
Locality: Romania
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
DRGR	41.7	120	Pg	10:18:10.45	0.72
			Sg	18:15.16	-0.38
MARR	75.2	117	PgC	10:18:15.99	0.27
			Sg	18:25.50	-0.70
SIRR	90.6	209	PgC	10:18:18.34	-0.13
			Sg	18:29.60	-1.49
CJR	107.9	106	PgD	10:18:21.57	0.02
			Sg	18:35.20	-1.39
BMR	122.5	51	PgC	10:18:23.70	-0.46
			Sg	18:39.90	-1.33
TRPA	130.0	10	Pg	10:18:25.13	-0.36
			PnC	10:18:25.59	-0.20
DEV	132.1	157	Sn	18:40.80	-3.33*
			Pn	10:18:29.74	0.62
BZS	158.8	198	Sn	18:50.20	0.15
			Pn	10:18:30.78	1.35
ARCR	161.3	86	Sn	18:51.67	1.07
			Pn	10:18:29.76	-0.06
ABAH	164.5	333	PnC	10:18:32.32	0.42
			Sn	18:54.90	-0.10
LOT	207.3	145	PnD	10:18:35.62	0.46
			Sn	19:00.60	-0.20
HERR	233.6	177	PnC	10:18:38.74	0.30
			Sn	19:06.70	0.05
BURA	236.2	73	PnC	10:18:39.27	0.51
			Sn	19:07.70	0.48
MDVR	247.6	189	PnD	10:18:40.72	0.53
			Sn	19:09.10	-0.66
ARR	257.6	134	PnD	10:18:41.57	0.14
			Sn	19:12.30	0.33
VOIR	276.6	128	PnD	10:18:44.35	0.55
			Sn	19:16.50	0.32

147.

2019-02-21 time: 10:35:15.51 UTC ML= 2.2
lat: 45.595N lon: 17.334E h= 10.0 km
erh= 2.8km erz= 1.9km
nr= 18 gap=214 rms=0.51
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	78.6	65	Pg	10:35:29.25	-0.41
			Sg	35:40.05	-0.64
KOVH	80.9	47	Pg	10:35:30.53	0.46
			Sg	35:41.89	0.46
BEHE	106.4	336	P*	10:35:34.76	0.25
			S*	35:48.98	-0.35
PTJ	112.3	288	Pn	10:35:34.99	-0.28
			Sn	35:49.23	-1.45
PKSM	122.5	56	Pn	10:35:36.79	0.25
			Sn	35:52.52	-0.42
MORH	122.9	56	Pn	10:35:36.52	-0.07
			Sn	35:52.59	-0.44
KOGS	126.6	318	Pn	10:35:37.66	0.61
			Sn	35:53.59	-0.27
CRES	148.4	280	Pn	10:35:40.15	0.38
			Sn	35:58.89	0.20
GROS	171.4	304	Pn	10:35:41.99	-0.65
			Pn	10:35:44.45	1.53

148.

2019-02-22 time: 9:06:51.91 UTC ML= 1.6
lat: 46.031N lon: 22.823E h= 0.0 km
erh= 6.1km erz= 5.7km
nr= 5 gap=199 rms=0.69
Locality: Romania
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
DRGR	85.0	354	Pg	9:07:08.04	0.96
			Sg	07:18.24	-0.68
BZS	104.4	244	Pg	9:07:10.62	0.06
			Sg	07:24.08	-1.03
ARCR	165.9	45	Sn	9:07:40.96	-0.29

149.

2019-02-22 time: 10:51:06.63 UTC ML= 1.4
lat: 47.194N lon: 18.296E h= 0.0 km
erh= 4.1km erz= 612km
nr= 7 gap=249 rms=0.40
Locality: Székesfehérvár
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	19.0	352	Pg	10:51:09.18	-0.84
			Sg	51:12.85	0.19
PKST	21.1	290	Pg	10:51:10.24	-0.15
			Sg	51:13.34	0.02
PKSG	23.1	18	Pg	10:51:10.91	0.15
			Sg	51:14.31	0.33
MPLH	57.4	267	Pg	10:51:17.30	0.43

150.

2019-02-22 time: 18:57:52.86 UTC ML= 2.2
lat: 47.665N lon: 20.320E h= 8.4 km
erh= 2.2km erz= 1.8km
nr= 27 gap= 93 rms=0.78
Locality: Tenk
Comments: felt 4 EMS

Földrengés paraméterek

sta	dist	azm	phase	hr mn sec	res
PSZ	42.6	311	Pg	18:58:01.24	0.62
			Sg	58:07.16	0.50
PENC	79.2	280	Pg	18:58:07.24	0.16
			Sg	58:17.68	-0.49
PKSN	92.0	202	Sg	18:58:21.46	-0.76
ABAH	98.1	44	Pg	18:58:10.28	-0.17
			Sg	58:23.61	-0.56
BUD	99.6	258	Pg	18:58:10.42	-0.30
			Sg	58:22.80	-1.84
PKS7	111.3	232	Pn	18:58:12.04	-0.66
			Sn	58:25.78	-2.38
A336	117.2	303	Pn	18:58:13.47	0.04
			Sn	58:28.12	-1.35
NADP	136.1	251	Pn	18:58:16.14	0.35
			Sn	58:32.98	-0.70
PKB2	137.2	217	Sn	18:58:33.69	-0.21
			Pn	18:58:16.84	0.07
VYHS	144.0	310	Sn	58:34.77	-0.65
			Pn	18:58:17.99	0.66
PKSG	148.5	258	Sn	58:35.08	-1.33
			Pn	18:58:18.01	0.29
CSKK	158.8	258	Sn	18:58:39.37	0.67
PKB5	169.1	225	Pn	18:58:21.59	1.69
			Sn	58:42.18	1.18
PKST	178.2	255	Pn	18:58:22.61	1.58
DRGR	205.4	118	Pn	18:58:24.40	-0.03
MORH	205.5	218	Pn	18:58:25.29	0.85

151.

2019-02-23 time: 12:56:29.04 UTC ML= 1.4
lat: 47.378N lon: 18.205E h= 10.0 km
erh= 1.1km erz= 0.9km
nr= 15 gap= 69 rms=0.33
Locality: Mór
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	4.5	112	PgU	12:56:31.06	0.06
			Sg	56:32.46	-0.07
PKSG	14.1	84	Pg	12:56:32.02	-0.11
			Sg	56:34.21	-0.33
PKST	18.5	224	Pg	12:56:32.84	0.04
			Sg	56:35.74	0.01
NADP	33.9	113	Sg	12:56:40.90	0.61
PNNH	38.7	300	Sg	12:56:41.65	-0.09
			Pg	12:56:37.99	0.01
SRO	49.1	10	Sg	56:44.85	-0.11
MPLH	55.4	245	Pg	12:56:39.10	0.00
A336	112.1	32	Sn	12:57:02.78	-1.39
			Pn	12:56:51.98	0.63
VYHS	132.7	21	Sn	57:07.15	-1.60
			Pn	12:56:51.32	-0.17
PKSM	133.9	166	Pn	12:56:51.32	-0.17

152.

2019-02-23 time: 12:59:15.47 UTC ML= 0.1
lat: 47.304N lon: 18.252E h= 4.7 km
erh= 9.2km erz=12.6km
nr= 6 gap=206 rms=0.17
Locality: Fehérváracsurgó
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	6.6	6	Pg	12:59:16.88	-0.05
			Sg	59:18.08	0.02
PKSG	14.4	47	Pg	12:59:18.47	0.30
			Sg	59:20.12	-0.16
PKST	17.2	253	Pg	12:59:18.47	-0.19
			Sg	59:21.21	0.07

Hypocenter Parameters

153.

2019-02-24 time: 13:44:38.82 UTC ML= 1.4
lat: 47.402N lon: 18.445E h= 5.8 km
erh= 2.4km erz= 1.9km
nr= 8 gap=265 rms=0.23
Locality: Csákvár
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSG	4.2	254	Pg	13:44:40.03	-0.06
			Sg	44:40.89	-0.20
CSKK	14.6	253	Pg	13:44:41.66	0.05
			Sg	44:43.99	0.20
PKST	34.9	243	Pg	13:44:44.94	-0.18
			Sg	44:50.08	0.04
PKB1	73.6	159	Pg	13:44:52.40	0.41
			Sg	45:01.83	-0.44

154.

2019-02-24 time: 14:44:33.77 UTC ML= 1.6
lat: 48.681N lon: 19.400E h= 1.3 km
erh= 3.8km erz= 8.4km
nr= 9 gap=156 rms=0.95
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr mn sec	res
VYHS	46.5	243	Pg	14:44:42.92	0.84
			Sg	44:48.05	-0.51
A336	58.0	211	Sg	14:44:51.63	-0.58
			Pg	14:44:49.15	0.54
KECS	83.1	105	Sg	44:58.81	-1.38
			Pg	14:44:50.66	0.38
PSZ	92.5	157	Pg	45:01.70	-1.46
NIE	105.8	39	Sg	14:45:05.62	-1.76
			Pn	14:44:59.51	1.09
ABAH	142.6	107	Pn	14:44:59.51	1.09

155.

2019-02-25 time: 0:18:04.41 UTC ML= 0.3
lat: 47.314N lon: 18.321E h= 10.0 km
erh= 3.1km erz= 2.4km
nr= 6 gap=223 rms=0.11
Locality: Söréd
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	7.1	320	Pg	0:18:06.54	-0.06
			Sg	18:08.15	-0.16
PKSG	10.1	32	Pg	0:18:06.95	0.00
			Sg	18:09.04	0.11
PKST	22.5	254	Pg	0:18:08.81	0.00
			Sg	18:12.57	0.32

156.

2019-02-25 time: 9:46:15.72 UTC ML= 2.5
lat: 48.267N lon: 21.541E h= 0.0 km
erh= 1.4km erz= 282km
nr= 6 gap=177 rms=0.16
Locality: Sárzsadány
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	22.6	278	Pg	9:46:19.78	0.03
			Sg	46:22.51	-0.39
TRPA	75.8	102	Sg	9:46:39.79	-0.02
KECS	81.8	287	Sg	9:46:42.03	0.32

Hypocenter Parameters

KOLS 91.7 36 Pg 9:46:32.12 0.03
Sg 46:44.80 -0.06

157.

2019-02-25 time: 11:03:01.92 UTC ML= 2.1
lat: 48.182N lon: 16.899E h= 0.0 km
erh= 4.0km erz= 4.7km
nr= 7 gap=148 rms=0.45
Locality: Austria
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CONA	82.3	250	Pg	11:03:16.84	0.22
			Sg	03:27.72	-0.36
KRUC	104.6	339	Sg	11:03:35.61	0.43
VRAC	127.2	350	Sg	11:03:41.91	-0.45
ARSA	146.2	225	Pn	11:03:27.72	0.53
			Sn	03:46.17	-0.73
VYHS	147.8	76	Sn	11:03:46.69	-0.55

158.

2019-02-25 time: 11:10:04.90 UTC ML= 1.4
lat: 47.222N lon: 18.295E h= 0.0 km
erh= 1.4km erz= 2.7km
nr= 13 gap= 98 rms=0.47
Locality: Moha
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	15.9	351	Pg	11:10:07.42	-0.33
			Sg	10:09.77	-0.20
PKST	20.2	282	Pg	11:10:08.37	-0.13
			Sg	10:11.14	-0.17
PKSG	20.2	21	Pg	11:10:08.72	0.21
			Sg	10:11.64	0.31
MPLH	57.6	264	Pg	11:10:15.49	0.31
PKB1	61.6	142	Pg	11:10:16.66	0.77
MORH	115.0	167	Pg	11:10:25.44	0.01
PKSM	115.3	167	Pg	11:10:25.46	-0.03
			Sg	10:39.60	-1.96
PSZ	143.1	57	Sn	11:10:48.54	-0.64
VYHS	147.1	16	Sn	11:10:48.13	-1.95

159.

2019-02-25 time: 12:39:47.88 UTC ML= 1.7
lat: 48.368N lon: 19.864E h= 0.0 km
erh= 3.9km erz= ***km
nr= 7 gap=154 rms=0.67
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	47.7	74	Pg	12:39:56.92	0.51
PSZ	50.0	177	Pg	12:39:57.05	0.24
			Sg	40:03.36	-0.42
A336	65.9	257	Pg	12:40:00.38	0.73
			Sg	40:08.38	-0.45
VYHS	77.4	280	Sg	12:40:11.26	-1.21
ABAH	102.3	94	Sg	12:40:19.32	-1.07

Földrengés paraméterek

160.

2019-02-26 time: 9:14:30.62 UTC ML= 1.8
lat: 47.353N lon: 18.406E h= 0.0 km
erh= 1.0km erz= 253km
nr= 7 gap=138 rms=0.17
Locality: Gánt
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	4.5	345	PgU	9:14:31.45	0.03
			Sg	14:31.85	-0.19
CSKK	11.0	276	Pg	9:14:32.67	0.08
			Sg	14:34.44	0.31
NADP	19.2	123	Pg	9:14:34.07	0.02
PKST	30.0	250	Pg	9:14:35.69	-0.28
			Sg	14:40.34	0.19

161.

2019-02-26 time: 9:15:10.48 UTC ML= 1.8
lat: 48.558N lon: 20.778E h= 0.0 km
erh= 3.1km erz= 6.4km
nr= 11 gap= 92 rms=0.95
Locality: Tornanádaska
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.2	249	Pg	9:15:13.80	-0.81
			Sg	15:16.82	-1.02
ABAH	44.9	131	Pg	9:15:19.17	0.67
			Sg	15:24.40	-0.35
PSZ	96.8	223	Pg	9:15:28.41	0.64
			Sg	15:41.52	0.27
NIE	101.6	340	Pg	9:15:29.97	1.36
			Sg	15:41.22	-1.54
KOLS	117.6	69	Pg	9:15:32.13	0.65
			Sg	15:46.19	-1.66
A336	136.6	255	Sn	9:15:52.41	-0.91

162.

2019-02-26 time: 9:25:07.91 UTC ML= 1.7
lat: 47.331N lon: 18.466E h= 0.0 km
erh= 1.9km erz= 396km
nr= 8 gap=214 rms=0.29
Locality: Lovasberény
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	8.8	320	Pg	9:25:09.55	0.07
			Sg	25:10.35	-0.36
CSKK	15.9	283	Pg	9:25:10.92	0.16
			Sg	25:12.61	-0.37
PKST	33.6	256	Pg	9:25:14.34	0.42
			Sg	25:18.19	-0.41
MORH	124.7	174	Sg	9:25:47.27	-0.29
PKSM	125.2	174	Sg	9:25:47.79	0.10

163.

2019-02-26 time: 10:49:49.31 UTC ML= 0.6
lat: 47.211N lon: 18.276E h= 0.0 km
erh= 0.8km erz= 103km
nr= 5 gap=263 rms=0.05
Locality: Iszkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	17.0	356	Sg	10:49:54.67	-0.03
PKST	19.0	286	Pg	10:49:52.66	-0.05

Földrengés paraméterek

PKSG 21.9 23 Sg 49:55.40 0.04
Pg 10:49:53.28 0.06
Sg 49:56.23 -0.04

164.

2019-02-27 time: 9:22:39.07 UTC ML= 2.6
lat: 46.374N lon: 21.546E h= 2.8 km
erh= 1.7km erz= 1.7km
nr= 52 gap= 41 rms=1.04
Locality: Romania
Comments:

sta	dist	azm	phase	hr mn sec	res
SIRR	14.7	144	PgD	9:22:43.15	1.40
			Sg	22:45.70	1.86
AMBH	63.2	268	Pg	9:22:49.73	-0.64
			Sg	22:56.96	-2.22
BORR	81.7	13	PgC	9:22:53.47	-0.20
SURR	82.2	147	PgC	9:22:54.04	0.28
			Sg	23:04.30	-0.92
BZS	84.4	176	Pg	9:22:54.00	-0.15
			Sg	23:03.76	-2.15
DRGR	100.6	63	Pg	9:22:57.18	0.13
			Sg	23:08.88	-2.20
BANR	114.7	196	Sg	9:23:14.20	-1.36
DEV	118.2	117	PgC	9:23:00.71	0.52
			Sg	23:15.60	-1.07
MARR	125.2	74	PnD	9:23:00.77	-0.60
MESR	137.6	51	PnC	9:23:02.85	-0.05
			Sn	23:19.50	-1.99
PKSN	141.1	294	Sn	9:23:20.53	-1.74
GZR	144.9	139	PnC	9:23:04.24	0.42
			Sn	23:22.80	-0.32
PKS6	154.2	279	Pn	9:23:04.79	-0.19
			Sn	23:23.77	-1.41
CJR	161.9	77	PnC	9:23:06.85	0.92
			Sn	23:26.40	-0.48
MDVR	177.5	176	PnD	9:23:07.91	0.03
HERR	179.3	158	PnC	9:23:08.00	-0.10
			Sn	23:30.50	-0.25
PKS2	179.8	274	Pn	9:23:09.39	1.22
			Sn	23:30.88	0.02
PKB2	179.9	281	Pn	9:23:09.16	0.98
			Sn	23:30.10	-0.79
PKB3	180.9	272	Pn	9:23:09.56	1.25
			Sn	23:29.80	-1.31
FRGS	192.9	224	Pn	9:23:10.53	0.73
PKS7	197.2	292	Sn	9:23:35.90	1.19
LOT	200.9	121	Sn	9:23:35.30	-0.24
PSZ	212.5	324	PnC	9:23:10.12	-2.13
ABAH	214.9	354	Pn	9:23:13.26	0.71
			Sn	23:39.16	0.51
PKB5	217.2	276	Pn	9:23:14.73	1.90
			Sn	23:40.04	0.88
MDB	220.1	97	Sn	9:23:39.80	0.00
MORH	224.3	265	Pn	9:23:15.51	1.79
			Sn	23:40.62	-0.12
PKSM	224.6	265	Pn	9:23:15.16	1.41
			Sn	23:40.82	0.02
TNR	225.9	111	PnC	9:23:14.49	0.57
			Sn	23:41.90	0.80
PKB4	226.5	273	Sn	9:23:42.55	1.31
ARR	264.6	115	PnC	9:23:19.93	1.19
VOIR	291.1	111	PnC	9:23:23.07	1.02
			Sn	23:56.40	0.83
BLKB	318.5	164	Sn	9:24:01.20	-0.44*

Hypocenter Parameters

165.

2019-02-27 time: 10:26:52.22 UTC ML= 1.1
lat: 47.207N lon: 18.291E h= 0.0 km
erh= 3.0km erz= 365km
nr= 6 gap=267 rms=0.22
Locality: Iszkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	17.5	352	Pg	10:26:55.41	0.06
			Sg	26:57.24	-0.55
PKST	20.3	287	Pg	10:26:55.96	0.12
			Sg	26:58.62	-0.05
PKSG	21.9	20	Pg	10:26:55.98	-0.15
			Sg	26:59.57	0.39

166.

2019-02-27 time: 19:39:53.43 UTC ML= 1.1
lat: 46.819N lon: 18.541E h= 14.0 km
erh= 1.9km erz= 4.9km
nr= 15 gap=104 rms=0.53
Locality: Mezőszilas
Comments:

sta	dist	azm	phase	hr mn sec	res
PKB1	19.5	101	Pg	19:39:58.12	0.39
PKB5	29.0	149	Pg	19:39:59.58	0.39
			Sg	40:03.44	-0.24
PKS9	32.7	218	Pg	19:40:00.11	0.32
			Sg	40:04.48	-0.26
PKB4	36.2	172	Pg	19:40:01.17	0.80
			Sg	40:05.70	-0.08
NADP	49.1	7	Sg	19:40:08.52	-1.13
PKB2	55.9	107	Sg	19:40:11.48	-0.27
PKST	62.2	322	Pg	19:40:04.93	0.11
MORH	67.5	173	Pg	19:40:05.67	-0.08
			Sg	40:13.63	-1.73
PKSM	68.0	174	Pg	19:40:05.71	-0.11
			Sg	40:13.80	-1.69

167.

2019-02-28 time: 9:42:37.17 UTC ML= 1.8
lat: 48.308N lon: 21.576E h= 0.0 km
erh= 6.0km erz= ***km
nr= 5 gap=162 rms=0.60
Locality: Sárospatak
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	25.0	267	Pg	9:42:42.17	0.54
			Sg	42:43.78	-1.32
TRPA	74.3	105	Sg	9:43:00.54	-0.23
KECS	83.1	284	Sg	9:43:03.85	0.29
KOLS	86.5	36	Sg	9:43:04.56	-0.10

168.

2019-02-28 time: 10:33:18.70 UTC ML= 1.6
lat: 48.576N lon: 20.776E h= 0.0 km
erh= 1.4km erz= 2.8km
nr= 10 gap=152 rms=0.36
Locality: Tornanádaska
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.8	244	Pg	10:33:23.31	0.37
			Sg	33:26.43	0.17
ABAH	46.3	132	Pg	10:33:27.03	0.06

Hypocenter Parameters

		Sg	33:32.90	-0.53
PSZ	98.1 222	Pg	10:33:36.52	0.30
		Sg	33:49.52	-0.37
NIE	99.7 340	Pg	10:33:36.82	0.33
LANS	115.3 304	Pg	10:33:38.83	-0.46
VYHS	143.5 266	Pn	10:33:43.47	-0.16
		Sn	34:01.85	-1.22

169.

2019-02-28 time: 11:08:03.84 UTC ML= 2.0
lat: 45.629N lon: 17.329E h= 10.0 km
erh= 3.0km erz= 2.3km
nr= 12 gap=118 rms=0.56
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	77.4	68	Pg	11:08:17.70	-0.08
			Sg	08:28.28	-0.37
KOVH	78.7	50	Pg	11:08:18.19	0.19
			Sg	08:28.55	-0.50
BLY	98.5	187	Pg	11:08:21.56	0.04
			Sg	08:33.84	-1.47
PKSM	120.7	58	Pn	11:08:24.84	0.20
			Sn	08:40.79	-0.08
MORH	121.1	57	Pn	11:08:25.17	0.47
			Sn	08:41.02	0.06
KOGS	123.5	317	Sn	11:08:40.18	-1.31
GROS	168.9	303	Pn	11:08:31.86	1.20

170.

2019-02-28 time: 11:09:15.72 UTC ML= 1.7
lat: 45.574N lon: 17.406E h= 12.2 km
erh= 2.0km erz= 1.4km
nr= 12 gap=129 rms=0.35
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	74.5	62	Pg	11:09:29.60	0.39
			Sg	09:38.99	-0.74
KOVH	78.5	43	Pg	11:09:29.75	-0.17
			Sg	09:41.15	0.16
BLY	93.4	191	P*	11:09:32.41	-0.12
PKSM	119.2	54	Pn	11:09:35.93	-0.13
			Sn	09:52.00	0.08
MORH	119.6	53	Pn	11:09:35.88	-0.23
			Sn	09:52.35	0.33
KOGS	132.1	317	Sn	11:09:52.50	-2.29*
GROS	177.4	304	Pn	11:09:44.01	0.69
			Sn	10:04.65	-0.19

171.

2019-02-28 time: 15:48:51.34 UTC ML= 2.0
lat: 46.098N lon: 21.699E h= 10.0 km
erh= 7.0km erz=10.5km
nr= 5 gap=142 rms=0.56
Locality: Romania
Comments:

sta	dist	azm	phase	hr mn sec	res
BZS	53.9	187	Pg	15:49:01.28	0.16
			Sg	49:08.21	-0.55
DRGR	109.5	45	Pn	15:49:11.33	0.58
			Sn	49:24.60	-1.28
PKSN	166.3	302	Pn	15:49:17.86	0.03

Földrengés paraméterek

172.

2019-03-01 time: 9:45:39.17 UTC ML= 1.1
lat: 47.178N lon: 18.302E h= 0.0 km
erh= 1.3km erz= 172km
nr= 6 gap=278 rms=0.10
Locality: Sárkeszi
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	20.8	351	Pg	9:45:43.03	0.15
			Sg	45:45.86	0.08
PKST	22.2	294	Pg	9:45:43.06	-0.07
			Sg	45:46.18	-0.04
PKSG	24.7	16	Pg	9:45:43.56	-0.01
			Sg	45:46.83	-0.18

173.

2019-03-01 time: 9:54:43.48 UTC ML= 1.7
lat: 47.871N lon: 19.190E h= 0.0 km
erh= 1.8km erz= 333km
nr= 5 gap=198 rms=0.16
Locality: Ósagárd
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	11.3	142	Pg	9:54:45.60	0.11
			Sg	54:46.70	-0.35
A336	42.7	341	Pg	9:54:51.12	0.01
			Sg	54:56.92	-0.14
PSZ	53.0	84	Sg	9:55:00.48	0.17

174.

2019-03-01 time: 10:17:12.64 UTC ML= 2.0
lat: 47.686N lon: 18.558E h= 0.0 km
erh= 2.7km erz= ***km
nr= 14 gap= 56 rms=1.18
Locality: Nagysáp
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
SRO	23.2	308	Sg	10:17:19.57	-0.44
PKSG	35.1	201	Sg	10:17:23.96	0.17
A338	39.7	337	Pg	10:17:22.49	2.76
BUD	41.6	123	Sg	10:17:25.63	-0.24
CSKK	42.3	212	Sg	10:17:25.82	-0.28
NADP	47.9	175	Sg	10:17:27.95	0.10
PENC	55.5	78	Sg	10:17:30.20	-0.07
PKST	61.8	220	Sg	10:17:33.21	0.94
A336	69.2	28	Sg	10:17:33.00	-1.62
VYHS	92.2	13	Sg	10:17:42.01	0.07
MPLH	95.9	233	Sg	10:17:41.48	-1.65
EGYH	97.0	252	Sg	10:17:42.35	-1.13
MODS	122.4	309	ePg	10:17:34.90	0.41
			eSg	17:50.00	-1.53

175.

2019-03-01 time: 10:34:13.36 UTC ML= 1.3
lat: 47.327N lon: 18.399E h= 0.0 km
erh= 1.6km erz= 3.7km
nr= 9 gap=157 rms=0.38
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	7.2	355	PgU	10:34:14.78	0.14
			Sg	34:15.24	-0.40
CSKK	11.2	291	Sg	10:34:16.38	-0.54

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PKST 28.6 255 Pg 10:34:19.01 0.54
Sg 34:22.69 0.24
MORH 125.0 171 Sg 10:34:53.07 -0.01
PKSM 125.4 172 Sg 10:34:52.76 -0.45
VYHS 133.8 14 ePn 10:34:37.00 -0.07
eSn 34:54.30 -1.27

176.

2019-03-02 time: 7:16:03.92 UTC ML= 1.6
lat: 46.368N lon: 21.514E h= 10.0 km
erh= 5.4km erz= 3.9km
nr= 12 gap=155 rms=1.26
Locality: Romania
Comments:

sta	dist	azm	phase	hr mn sec	res
SIRR	15.8	135	PgC	7:16:08.26	0.99
			Sg	16:10.60	0.72
AMBH	60.7	268	Sg	7:16:22.29	-1.19
BZS	83.9	175	Pg	7:16:18.95	-0.06
			Sg	16:29.15	-1.63
DRGR	103.1	63	P*	7:16:22.42	0.00
			S*	16:34.67	-2.18
MARR	127.8	74	PnC	7:16:26.93	1.32
			Sn	16:40.90	-1.63
GZR	146.1	138	PnD	7:16:29.80	1.90
			Sn	16:45.00	-1.60
MDVR	177.0	175	Sn	7:16:54.60	1.14

177.

2019-03-04 time: 7:29:39.96 UTC ML= 0.9
lat: 47.235N lon: 18.159E h= 0.0 km
erh= 1.1km erz= 373km
nr= 9 gap=124 rms=0.28
Locality: Bakonykúti
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	9.8	286	Pg	7:29:41.80	0.09
			Sg	29:43.02	-0.05
CSKK	16.2	28	Pg	7:29:42.59	-0.26
			Sg	29:45.22	0.11
PKSG	24.7	45	Pg	7:29:44.47	0.09
			Sg	29:47.79	-0.03
PKB5	83.6	148	Pg	7:29:54.72	-0.17
			Sg	30:07.18	0.64
PKSM	119.6	162	Sg	7:30:15.58	-2.39*

178.

2019-03-04 time: 7:32:31.69 UTC ML= 0.8
lat: 47.196N lon: 18.198E h= 0.0 km
erh= 2.4km erz= 694km
nr= 8 gap=137 rms=0.49
Locality: Csór
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	14.2	299	Pg	7:32:34.21	-0.02
			Sg	32:36.49	0.28
CSKK	19.2	14	Pg	7:32:34.83	-0.28
			Sg	32:37.76	-0.02
PKSG	26.2	34	Pg	7:32:36.02	-0.35
			Sg	32:40.96	0.94
PKSM	114.6	163	Pg	7:32:52.68	0.53
			Sg	33:06.73	-1.38

Hypocenter Parameters

179.

2019-03-04 time: 8:53:16.52 UTC ML= 1.6
lat: 48.658N lon: 20.759E h= 0.0 km
erh= 2.8km erz= 3.6km
nr= 8 gap=172 rms=0.45
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	28.0	226	Pg	8:53:21.79	0.26
			Sg	53:24.72	-0.71
ABAH	53.7	139	Pg	8:53:25.78	-0.33
			Sg	53:33.33	-0.25
PSZ	104.3	218	Pg	8:53:35.84	0.69
KOLS	115.4	75	Sg	8:53:53.39	0.20
VYHS	143.1	263	Pn	8:53:41.49	0.09
			Sn	53:59.97	-0.83

180.

2019-03-04 time: 10:43:58.48 UTC ML= 1.8
lat: 47.294N lon: 18.420E h= 0.0 km
erh= 2.4km erz= 603km
nr= 7 gap=183 rms=0.88
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	11.1	348	PgU	10:44:00.00	-0.46
			Sg	44:00.60	-1.40
CSKK	14.3	302	Pg	10:44:01.19	0.16
			Sg	44:01.91	-1.11
PKST	29.5	262	Sg	10:44:08.76	0.92
MORH	121.1	172	Sg	10:44:37.68	0.72
PKSM	121.5	172	Sg	10:44:38.57	1.48

181.

2019-03-04 time: 11:00:31.69 UTC ML= 2.1
lat: 48.176N lon: 16.867E h= 0.0 km
erh= 5.0km erz= 4.4km
nr= 8 gap=233 rms=0.50
Locality: Austria
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CONA	79.9	250	Pg	11:00:45.99	0.03
			Sg	00:56.89	-0.19
KRUC	104.4	341	Pg	11:00:51.14	0.80
			Sg	01:04.67	-0.21
VRAC	127.5	351	Pg	11:00:54.38	-0.07
			Sg	01:10.55	-1.66
ARSA	144.1	224	Pn	11:00:56.74	0.04
			Sn	01:15.62	-0.58

182.

2019-03-04 time: 11:54:14.64 UTC ML= 1.4
lat: 46.109N lon: 17.973E h= 0.0 km
erh= 3.9km erz= 451km
nr= 7 gap=269 rms=0.30
Locality: Dinnyeberki
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	10.1	103	Pg	11:54:16.58	0.15
			Sg	54:17.78	-0.06
PKSV	32.7	139	Sg	11:54:25.21	0.19
PKSM	52.9	77	Pg	11:54:24.01	-0.07
			Sg	54:30.26	-1.19

Hypocenter Parameters

MORH	53.2	77	Pg	11:54:23.98	-0.15
PKB5	79.8	47	Sg	11:54:40.48	0.48

183.

2019-03-04 time: 12:45:45.43 UTC ML= 1.2
lat: 47.182N lon: 18.309E h= 0.0 km
erh= 0.7km erz= 134km
nr= 7 gap=222 rms=0.09
Locality: Székesfehérvár
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	20.5	350	Pg	12:45:49.20	0.12
			Sg	45:51.76	-0.17
PKST	22.5	292	Pg	12:45:49.42	-0.03
			Sg	45:52.56	-0.02
PKSG	24.1	15	Pg	12:45:49.80	0.06
			Sg	45:53.17	0.08
NADP	24.8	70	Pg	12:45:49.76	-0.10

184.

2019-03-04 time: 21:46:13.73 UTC ML= 1.7
lat: 47.534N lon: 18.942E h= 11.6 km
erh= 1.1km erz= 0.8km
nr= 30 gap= 85 rms=0.47
Locality: Budakeszi
Comments:

sta	dist	azm	phase	hr mn sec	res
BUD	8.3	132	Pg	21:46:16.48	0.21
			Sg	46:17.90	-0.35
PENC	38.3	42	PgD	21:46:20.85	-0.02
			Sg	46:25.87	-0.57
NADP	39.3	219	Pg	21:46:21.37	0.33
			Sg	46:26.69	-0.05
PKSG	44.5	249	Pg	21:46:22.05	0.11
			Sg	46:27.89	-0.45
CSKK	54.8	250	PgU	21:46:23.70	-0.03
SRO	56.5	303	eSg	21:46:32.10	0.02
A338	69.4	320	Pg	21:46:26.76	0.46
PKST	75.0	246	Pg	21:46:27.41	0.12
A336	77.9	3	Pg	21:46:27.51	-0.28
			Sg	46:36.37	-2.39
PKB1	84.1	188	Sg	21:46:40.79	0.09
PKB2	98.2	167	P*	21:46:31.56	0.23
			S*	46:43.87	-1.19
PKB5	105.5	189	Pn	21:46:32.94	0.50
			Sn	46:46.02	-1.01
TIH	106.2	228	Pn	21:46:32.02	-0.50
VYHS	107.1	356	Pn	21:46:32.40	-0.23
			Sn	46:44.27	-3.11*
PKS2	117.6	170	Sn	21:46:50.36	0.64
PKB4	118.2	193	Sn	21:46:49.80	-0.04
PKB3	124.9	171	Sn	21:46:51.82	0.49
MORH	148.3	189	Pn	21:46:37.80	0.03
PKSM	148.7	189	Pn	21:46:37.83	0.01
KECS	156.2	47	ePn	21:46:40.30	1.54
KOVH	173.1	202	Pn	21:46:40.91	0.05
			Sn	47:00.77	-1.25

185.

2019-03-05 time: 9:51:26.17 UTC ML= 1.7
lat: 48.516N lon: 17.473E h= 0.0 km
erh= 5.2km erz= 9.4km
nr= 7 gap=150 rms=0.75
Locality: Slovakia
Comments: probably explosion

Földrengés paraméterek

sta	dist	azm	phase	hr mn sec	res
SMOL	3.3	266	Pg	9:51:26.70	-0.06
			Sg	51:27.51	0.29
KRUC	99.8	307	Sg	9:51:58.08	0.19
VYHS	100.8	91	Pg	9:51:45.18	1.02
			Sg	51:56.33	-1.87
VRAC	109.2	324	Sg	9:51:59.99	-0.89
CONA	136.4	241	Pn	9:51:50.10	-0.12

186.

2019-03-05 time: 9:54:58.25 UTC ML= 1.4
lat: 47.515N lon: 18.557E h= 0.0 km
erh= 7.3km erz= 7.8km
nr= 9 gap=167 rms=0.56
Locality: Nagyecyháza
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	18.6	222	Pg	9:55:02.24	0.66
			Sg	55:05.29	1.12
CSKK	28.1	233	Pg	9:55:03.25	-0.01
			Sg	55:07.27	0.10
PKST	48.7	234	Pg	9:55:06.40	-0.55
			Sg	55:13.19	-0.54
VYHS	110.8	11	Pg	9:55:18.17	0.14
PKSM	145.1	177	Pn	9:55:23.16	-0.22
			Sn	55:41.23	-1.74

187.

2019-03-05 time: 10:02:28.99 UTC ML= 1.9
lat: 48.588N lon: 20.771E h= 0.0 km
erh= 2.6km erz= 2.7km
nr= 7 gap=227 rms=0.45
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.1	241	Pg	10:02:33.53	0.24
			Sg	02:36.68	0.04
ABAH	47.5	133	Sg	10:02:43.67	-0.42
PSZ	98.9	221	Pg	10:02:47.14	0.49
			Sg	02:59.84	-0.58
VYHS	143.2	266	Pn	10:02:53.92	0.03
			Sn	03:12.03	-1.27

188.

2019-03-06 time: 8:15:02.19 UTC ML= 0.8
lat: 48.442N lon: 19.120E h= 0.0 km
erh= 1.7km erz= 485km
nr= 7 gap=162 rms=0.33
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	21.8	285	Pg	8:15:05.92	-0.15
			Sg	15:09.33	0.23
A336	24.9	201	Pg	8:15:06.57	-0.06
			Sg	15:09.58	-0.52
PENC	73.5	171	Sg	8:15:25.95	0.41
KECS	101.1	87	ePg	8:15:20.60	0.36
			eSg	15:33.40	-0.93

Földrengés paraméterek

189.

2019-03-06 time: 8:16:54.21 UTC ML= 0.9
lat: 47.128N lon: 17.962E h= 13.8 km
erh= 2.0km erz= 2.2km
nr= 11 gap=125 rms=0.41
Locality: Kádárta
Comments:

sta	dist	azm	phase	hr mn sec	res
PKST	15.5	21	Pg	8:16:56.98	-0.94
			Sg	17:00.55	-0.26
MPLH	32.4	278	Pg	8:17:00.72	0.22
			Sg	17:05.39	-0.02
CSKK	34.5	41	Pg	8:17:01.15	0.30
			Sg	17:06.32	0.30
PKSG	43.7	48	Pg	8:17:02.84	0.45
			Sg	17:08.52	-0.25
PKB5	83.6	135	Sg	8:17:21.23	0.09
MORH	114.0	153	Sn	8:17:28.93	0.02
PKSM	114.3	153	Sn	8:17:28.55	-0.43

190.

2019-03-06 time: 10:56:15.45 UTC ML= 1.6
lat: 48.607N lon: 20.757E h= 0.0 km
erh= 2.2km erz= 2.7km
nr= 13 gap=129 rms=0.61
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.3	236	Pg	10:56:20.13	0.35
			Sg	56:22.87	-0.29
ABAH	49.7	134	Pg	10:56:24.55	0.23
			Sg	56:31.25	0.00
PSZ	99.8	220	Pg	10:56:33.01	-0.26
			Sg	56:46.72	-0.44
LANS	112.2	303	ePg	10:56:35.70	0.21
			eSg	56:50.10	-1.02
KOLS	117.3	72	Sg	10:56:51.84	-0.88
A336	136.6	252	Sn	10:56:57.76	-0.52
TRPA	142.3	112	Pn	10:56:42.30	2.07
VYHS	142.3	265	Pn	10:56:40.59	0.36
			Sn	56:58.82	-0.74

191.

2019-03-06 time: 11:25:56.47 UTC ML= 2.0
lat: 48.320N lon: 21.295E h= 0.0 km
erh= 4.7km erz= ***km
nr= 7 gap=135 rms=0.86
Locality: Sima
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	4.9	238	Pg	11:25:57.95	0.60
			Sg	25:59.00	0.96
KECS	62.7	287	Pg	11:26:08.04	0.38
			Sg	26:15.87	-0.52
TRPA	94.8	103	Sg	11:26:26.19	-0.41
KOLS	99.2	47	Sg	11:26:27.30	-0.72
PSZ	113.5	247	Sg	11:26:29.86	-2.68

Hypocenter Parameters

192.

2019-03-06 time: 11:55:15.34 UTC ML= 0.6
lat: 47.220N lon: 18.258E h= 0.0 km
erh= 1.7km erz= 347km
nr= 7 gap=203 rms=0.23
Locality: Iszkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	15.9	1	Pg	11:55:18.25	0.07
			Sg	55:20.39	-0.01
PKST	17.5	284	Pg	11:55:18.21	-0.25
			Sg	55:21.81	0.91
PKSG	21.6	28	Pg	11:55:19.21	0.01
			Sg	55:22.05	-0.15
NADP	27.6	81	Sg	11:55:24.27	0.17

193.

2019-03-07 time: 8:30:47.41 UTC ML= 1.6
lat: 46.917N lon: 22.816E h= 0.0 km
erh= 4.4km erz= 3.7km
nr= 15 gap=110 rms=1.05
Locality: Romania
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
DRGR	16.1	210	Pg	8:30:50.36	0.09
			Sg	30:53.56	1.05
MARR	35.4	139	PgC	8:30:53.17	-0.55
			Sg	30:57.20	-1.45
GZR	169.4	181	PnC	8:31:16.80	1.24
			Sn	31:36.70	-0.82
BZS	171.6	213	Pn	8:31:14.75	-1.08
			Sn	31:38.07	0.06
LOT	179.1	156	PnC	8:31:17.62	0.85
			Sn	31:39.30	-0.38
ABAH	193.8	322	Sn	8:31:40.79	-2.16
			PnC	8:31:21.23	2.16
BURA	197.6	67	PnC	8:31:21.23	2.16
			Sn	31:44.80	1.03
VOIR	238.3	134	PnC	8:31:25.43	1.27
			Sn	31:51.70	-1.12

194.

2019-03-07 time: 9:18:27.60 UTC ML= 1.8
lat: 47.349N lon: 18.427E h= 0.0 km
erh= 2.1km erz= 4.0km
nr= 10 gap=112 rms=0.70
Locality: Gánt
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	5.5	330	Pg	9:18:28.99	0.40
			Sg	18:29.41	0.05
CSKK	12.7	277	Pg	9:18:30.27	0.40
			Sg	18:31.94	0.30
NADP	17.6	125	Sg	9:18:34.63	1.44
PKST	31.3	251	Sg	9:18:37.24	-0.32
MORH	127.0	173	Sg	9:19:07.22	-0.75
PKSM	127.4	173	Sg	9:19:06.88	-1.22
VYHS	131.0	13	Pn	9:18:50.85	-0.12
			Sn	19:07.57	-1.62

Hypocenter Parameters

195.

2019-03-07 time: 10:04:58.75 UTC ML= 1.4
lat: 47.855N lon: 19.156E h= 0.0 km
erh= 5.9km erz= 293km
nr= 6 gap=214 rms=0.18
Locality: Ósagárd
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	11.8	128	Pg	10:05:00.83	-0.03
			Sg	05:02.37	-0.14
A336	43.6	344	Pg	10:05:06.72	0.18
			Sg	05:12.74	0.13
VYHS	74.9	341	Pg	10:05:12.13	0.01
			Sg	05:21.97	-0.59

196.

2019-03-07 time: 10:26:17.10 UTC ML= 1.2
lat: 46.106N lon: 18.024E h= 0.0 km
erh= 3.0km erz= 539km
nr= 10 gap=261 rms=0.43
Locality: Bükkösd
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	6.2	109	Pg	10:26:18.43	0.22
			Sg	26:19.78	0.70
PKSV	30.0	144	Pg	10:26:22.62	0.16
			Sg	26:26.71	0.08
PKSM	49.1	76	Pg	10:26:25.66	-0.21
			Sg	26:31.81	-0.91
MORH	49.4	76	Pg	10:26:25.66	-0.27
			Sg	26:32.13	-0.69
PKB5	77.2	45	Pg	10:26:30.93	0.05
			Sg	26:42.68	1.05

197.

2019-03-07 time: 11:21:01.84 UTC ML= 1.2
lat: 46.136N lon: 18.003E h= 0.0 km
erh= 0.7km erz= 102km
nr= 8 gap=295 rms=0.07
Locality: Hetvehely
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	9.2	125	Pg	11:21:03.40	-0.08
			Sg	21:04.86	0.10
PKSV	33.6	145	Pg	11:21:07.89	0.05
			Sg	21:12.19	-0.34
PKSM	50.0	80	Pg	11:21:10.78	0.01
			Sg	21:17.79	0.06
MORH	50.3	80	Pg	11:21:10.81	-0.01
			Sg	21:17.79	-0.03

198.

2019-03-07 time: 19:07:54.24 UTC ML= 4.0
lat: 46.306N lon: 17.303E h= 17.9 km
erh= 0.9km erz= 0.8km
nr= 76 gap= 59 rms=0.50
Locality: Somogyszob
Comments: felt 5 EMS

sta	dist	azm	phase	hr mn sec	res
BEHE	44.5	294	PgD	19:08:02.56	-0.24
			Sg	08:08.82	-0.66
KOVH	66.1	111	P*D	19:08:06.12	-0.25
			S*	08:14.26	-1.56

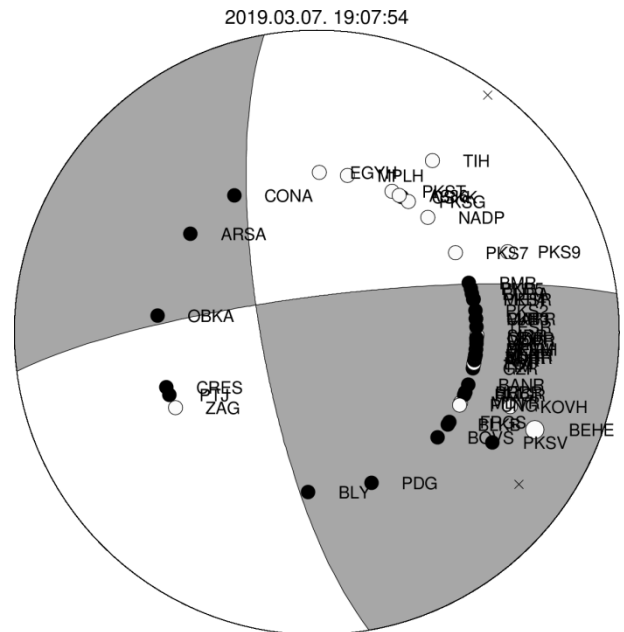
Földrengés paraméterek

TIH	80.0	34	P*D	19:08:08.08	-0.40
PKS9	81.2	67	P*D	19:08:08.69	0.02
			S*	08:20.18	0.26
KOGS	82.5	281	iP*	19:08:08.35	-0.51
			iS*	08:18.74	-1.52
PKSV	86.9	122	P*U	19:08:09.86	0.34
MPLH	97.7	11	PnD	19:08:10.60	-0.57
			Sn	08:24.04	-0.33
PKB4	102.3	78	PnD	19:08:11.95	0.22
			Sn	08:24.88	-0.50
PKSM	103.7	96	PnU	19:08:11.92	0.00
			Sn	08:25.24	-0.46
MORH	103.9	96	PnU	19:08:11.94	0.00
			Sn	08:25.16	-0.58
PTJ	113.4	247	PnU	19:08:12.89	-0.23
			Sn	08:27.33	-0.51
ZAG	114.3	242	PnD	19:08:13.87	0.63
			Sn	08:28.02	-0.03
PKB5	114.7	74	PnU	19:08:13.00	-0.28
			Sn	08:27.50	-0.63
PKST	119.7	28	PnD	19:08:14.26	0.35
			Sn	08:29.19	-0.07
EGYH	123.5	1	PnD	19:08:15.84	1.46
			Sn	08:32.61	2.52*
PKB1	126.0	65	Pn	19:08:14.52	-0.17
CSKK	138.4	32	PnU	19:08:16.87	0.64
NADP	145.8	44	PnD	19:08:17.19	0.02
			Sn	08:34.13	-0.92
PKB3	146.2	85	PnU	19:08:17.12	-0.09
			Sn	08:35.08	-0.05
PKSG	146.4	35	PnD	19:08:17.57	0.33
PKS2	148.4	82	PnU	19:08:17.49	0.01
CRES	152.5	250	PnU	19:08:17.93	-0.06
PKB2	154.4	75	Pn	19:08:18.11	-0.12
SOP	163.2	340	Pn	19:08:19.53	0.20
PKS7	164.3	60	PnD	19:08:19.30	-0.17
A339	171.4	9	Pn	19:08:21.98	1.62
ARSA	171.7	308	PnU	19:08:20.75	0.36
RONA	172.8	334	Pn	19:08:21.01	0.48
			Sn	08:40.24	-0.79
BLY	173.4	183	PnU	19:08:21.39	0.79
PKS6	176.8	79	Pn	19:08:20.93	-0.10
SOKA	179.1	283	Pn	19:08:21.23	-0.09
			Sn	08:41.31	-1.13
BOJS	182.4	241	iPn	19:08:21.75	0.02
SRO	184.3	25	Pn	19:08:22.83	0.87
BUD	185.3	45	Pn	19:08:21.86	-0.23
VISS	198.7	254	iPn	19:08:23.70	-0.05
			iSn	08:45.31	-1.47
VNDS	202.1	264	iPn	19:08:24.11	-0.07
A338	206.0	23	Pn	19:08:25.69	1.02
PKSN	207.2	72	Pn	19:08:24.73	-0.09
CONA	210.9	329	PnU	19:08:25.71	0.43
OBKA	213.0	276	PnU	19:08:25.36	-0.18
PENC	223.2	42	Pn	19:08:27.40	0.58
MODS	229.9	360	ePn	19:08:27.90	0.26
FRGS	234.6	124	PnU	19:08:28.76	0.52
A336	249.7	31	PnD	19:08:30.83	0.71
AMBH	263.6	89	Pn	19:08:32.15	0.29
PSZ	266.1	48	Pn	19:08:31.72	-0.44
VYHS	269.4	25	Pn	19:08:32.97	0.40
MYKA	283.5	277	Pn	19:08:34.57	0.24
			Sn	09:06.90	1.30
MOA	287.5	307	Pn	19:08:36.00	1.18
			Sn	09:06.39	-0.09
TIM	309.9	102	PnC	19:08:37.27	-0.36*
KRUC	313.9	347	Pn	19:08:38.48	0.36*
KBA	314.7	286	Pn	19:08:38.57	0.35*
BANR	314.9	109	PnC	19:08:38.27	0.02*
BBLS	317.7	149	Pn	19:08:40.07	1.47*
BIOA	318.4	299	Pn	19:08:39.71	1.02*
			Sn	09:13.91	0.56*
SIRR	335.8	91	PnD	19:08:41.24	0.39*
VRAC	338.0	351	Pn	19:08:41.31	0.18*
KECS	341.1	45	Pn	19:08:41.87	0.36*

Földrengés paraméterek

BZS	343.1	103	Pn	19:08:42.12	0.36*
ABTA	370.8	278	Pn	19:08:46.08	0.86*
ABAH	370.9	53	Pn	19:08:45.17	-0.06*
SURR	378.3	99	PnC	19:08:46.46	0.30*
MDVR	383.9	116	PnD	19:08:47.31	0.46*
MORC	386.3	3	Pn	19:08:48.20	1.05*
OKC	397.7	9	eSn	19:09:29.30	-1.64*
DRGR	418.3	83	Pn	19:08:51.66	0.52*
ZVC	418.9	326	ePn	19:08:52.10	0.89*
KHC	420.4	318	ePn	19:08:53.30	1.90*
			eSn	09:35.50	-0.49*
HERR	429.3	112	PnC	19:08:53.58	1.07*
			Sn	09:37.80	-0.16*
DEV	435.7	96	PnC	19:08:52.95	-0.35*
			Sn	09:38.00	-1.37*
GZR	437.1	103	PnC	19:08:54.10	0.61*
			Sn	09:39.90	0.20*
MESR	441.7	78	PnC	19:08:54.53	0.47*
			Sn	09:39.30	-1.42*
GOPC	442.7	335	ePn	19:08:54.70	0.51*
WTTA	445.6	284	Pn	19:08:55.98	1.44*
			Sn	09:43.90	2.32*
MARR	448.4	85	PnC	19:08:55.54	0.64*
			Sn	09:40.80	-1.41*
WATA	451.7	285	Pn	19:08:56.84	1.53*
			Sn	09:43.80	0.86*
DPC	455.5	351	ePn	19:08:56.70	0.92*
BOVS	456.9	131	PnC	19:08:56.87	0.92*
			Sn	09:46.10	2.01*
PDG	458.0	160	PnC	19:08:58.23	2.14*
PRU	458.1	333	ePn	19:08:56.40	0.30*
RMGR	459.3	113	PnC	19:08:56.55	0.30*
SQTA	476.5	282	Pn	19:09:00.11	1.71*
			Sn	09:50.76	2.32*
UPC	476.8	348	ePn	19:08:59.80	1.36*
CJR	485.3	85	PnC	19:08:59.93	0.44*
			Sn	09:50.70	0.31*
BMR	495.1	72	PnC	19:09:00.61	-0.11*
PUNG	495.8	117	PnD	19:09:01.38	0.57*
SRE	496.3	112	PnC	19:09:01.50	0.63*
FETA	509.4	279	Pn	19:09:04.17	1.68*
			Sn	09:55.08	-0.65*
LOT	511.1	101	PnD	19:09:03.29	0.59*
			Sn	09:55.80	-0.31*
RETA	515.4	285	Sn	19:09:57.32	0.25*
BLKB	518.3	125	PnC	19:09:04.74	1.14*
			Sn	09:58.10	0.39*
ARCR	546.2	81	Sn	19:10:02.80	-1.11*
MDB	546.4	92	PnC	19:09:06.66	-0.45*
NKC	566.2	320	ePn	19:09:10.30	0.72*
DAVA	577.1	281	Pn	19:09:11.86	0.92*
			Sn	10:10.90	0.14*
ARR	579.0	100	PnC	19:09:10.70	-0.48*
			Sn	10:12.00	0.80*
VOIR	609.2	99	PnC	19:09:15.00	0.06*
			Sn	10:17.80	-0.09*
BURA	619.7	76	PnC	19:09:16.30	0.05*
			Sn	10:18.80	-1.42*
DOPR	626.0	93	PnC	19:09:16.58	-0.45*
OZUR	655.2	92	PnC	19:09:20.04	-0.64*
MLR	676.8	98	PnD	19:09:23.94	0.57*
NEHR	705.1	98	PnC	19:09:27.50	0.60*
TESR	719.0	88	PnC	19:09:27.83	-0.81*
VRI	730.6	94	PnC	19:09:30.05	-0.03*

Hypocenter Parameters



199.

```

2019-03-07 time: 19:21:16.66 UTC ML= 1.0
lat: 46.261N lon: 17.387E h= 10.0 km
erh= 7.5km erz= 4.9km
nr= 8 gap=216 rms=0.62
Locality: Ötvöskőnyi
Comments:

```

sta	dist	azm	phase	hr	mn	sec	res
KOVH	58.3	109	Pg	19:21:28.45			1.24
			Sg	21:35.63			0.18
PKSM	96.9	93	Pg	19:21:33.94			-0.11
			Sg	21:47.43			-0.18
PKB4	97.2	74	Sg	19:21:47.20			-0.51
PKB5	110.1	70	Sn	19:21:50.67			-0.67

200.

```

2019-03-07  time: 19:38:21.70  UTC  ML= 1.3
  lat: 46.277N lon: 17.392E  h= 10.0 km
                erh= 3.9km  erz= 3.4km
nr= 10          gap=211      rms=0.55
Locality: Szabás
Comments:

```

sta	dist	azm	phase	hr	mn	sec	res
KOVH	58.6	111	Pg	19:38:33.60			1.29
			Sg		38:40.53		-0.05
PKB4	96.4	75	Sg	19:38:52.50			0.00
PKSM	96.7	94	Pg	19:38:38.36			-0.69
			Sg		38:52.73		0.14
MORH	96.8	94	Sg	19:38:52.64			0.00
PKB5	109.2	71	Sn	19:38:55.58			-0.60

201.

```

2019-03-07  time: 21:06:59.20 UTC  ML= 1.5
  lat: 47.510N lon: 18.969E  h= 10.0 km
                erh= 2.1km   erz= 2.0km
nr= 20          gap= 69      rms=0.78
Locality: Budakeszi
Comments:

```

sta	dist	azm	phase	hr	mn	sec	res
BUD	5.1	126	PqU	21:07:01.62			0.42

Hypocenter Parameters

			Sg	07:02.99	0.23
NADP	38.6	223	Pg	21:07:06.52	0.20
PENC	39.0	37	Pg	21:07:05.95	-0.44
PKSG	45.6	253	Pg	21:07:07.25	-0.28
			Sg	07:12.93	-1.10
CSKK	55.9	253	Pg	21:07:08.84	-0.50
SRO	59.7	304	ePg	21:07:11.40	1.39
			eSg	07:17.50	-0.94
PKB1	81.8	189	Pg	21:07:14.86	0.95
			Sg	07:25.24	-0.15
PSZ	82.9	57	Pg	21:07:14.06	-0.05
			Sg	07:24.15	-1.60
PKSN	96.3	135	Sg	21:07:29.13	-0.84
PKB5	103.3	190	P*	21:07:18.01	0.29
			S*	07:30.77	-1.39
VYHS	109.8	355	Pn	21:07:18.08	-0.57
KECS	156.6	46	ePn	21:07:26.30	1.83
			eSn	07:44.80	0.61
MODS	158.7	307	ePn	21:07:26.00	1.26

202.

2019-03-08 time: 0:11:55.30 UTC ML= 1.7
lat: 46.312N lon: 17.315E h= 15.5 km
erh= 1.8km erz= 1.3km
nr= 27 gap= 67 rms=0.59
Locality: Ötvöskőnyi
Comments:

sta	dist	azm	phase	hr mn sec	res
BEHE	45.0	293	Sg	0:12:10.17	-0.27
KOVH	65.5	112	Pg	0:12:07.90	0.58
			Sg	12:15.02	-1.68
TIH	78.9	34	P*	0:12:09.07	-0.52
PKS9	80.1	68	P*	0:12:09.89	0.12
			S*	12:20.95	-0.12
PKSV	86.4	123	P*	0:12:11.26	0.52
			S*	12:23.40	0.62
MPLH	96.9	10	P*	0:12:12.75	0.42
PKB4	101.2	78	Pn	0:12:13.88	0.92
			Sn	12:25.95	-0.79
PKSM	102.9	96	Pn	0:12:12.69	-0.48
			Sn	12:26.17	-0.94
MORH	103.0	96	Pn	0:12:12.69	-0.50
			Sn	12:25.80	-1.35
PKB5	113.6	74	Pn	0:12:15.12	0.61
			Sn	12:28.53	-0.96
PTJ	114.5	246	Pn	0:12:14.92	0.30
			Sn	12:29.00	-0.69
PKST	118.7	28	Pn	0:12:15.45	0.30
			Sn	12:30.17	-0.46
PKB3	145.2	85	Pn	0:12:19.60	1.15

203.

2019-03-08 time: 8:11:12.97 UTC ML= 1.4
lat: 48.080N lon: 20.694E h= 0.0 km
erh= 2.2km erz= 3.9km
nr= 8 gap=194 rms=0.38
Locality: Miskolctapolca
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	47.1	59	Pg	8:11:21.45	0.06
			Sg	11:27.61	-0.34
KECS	47.4	341	Pg	8:11:21.45	0.01
			Sg	11:28.10	0.06
PSZ	62.3	253	Pg	8:11:24.15	0.05
			Sg	11:32.25	-0.53
VYHS	145.4	288	ePn	8:11:39.20	1.07
			eSn	11:56.80	-0.95

Földrengés paraméterek

204.

2019-03-08 time: 8:32:01.34 UTC ML= 1.4
lat: 48.328N lon: 18.991E h= 0.0 km
erh= 2.2km erz= 4.9km
nr= 13 gap=113 rms=0.76
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
A336	10.6	177	Pg	8:32:03.78	0.55
			Sg	32:05.19	0.48
VYHS	21.7	328	Pg	8:32:05.40	0.18
			Sg	32:08.65	0.41
PENC	63.6	160	Sg	8:32:21.72	0.16
PSZ	81.2	124	Pg	8:32:16.47	0.62
			Sg	32:25.75	-1.42
KECS	112.0	81	ePg	8:32:21.90	0.56
			eSg	32:34.90	-2.04
PKSG	113.4	203	Sg	8:32:37.39	0.00
MODS	127.1	272	ePg	8:32:23.00	-1.04
			eSg	32:40.20	-1.55
PKST	138.8	211	Sn	8:32:43.40	-1.27

205.

2019-03-08 time: 8:42:28.17 UTC ML= 1.4
lat: 47.450N lon: 18.733E h= 0.0 km
erh= 1.4km erz= 2.1km
nr= 16 gap=102 rms=0.72
Locality: Etyek
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
BUD	22.3	80	Sg	8:42:36.95	1.70
NADP	23.1	202	Pg	8:42:32.94	0.64
			Sg	42:35.96	0.44
PKSG	26.6	256	Pg	8:42:33.25	0.32
			Sg	42:36.83	0.20
CSKK	36.9	255	Pg	8:42:35.27	0.50
			Sg	42:40.21	0.30
PKST	56.9	248	Pg	8:42:38.28	-0.05
			Sg	42:46.27	0.02
PSZ	101.6	59	Pg	8:42:45.39	-0.92
			Sg	43:00.73	0.27
VYHS	116.3	4	Pg	8:42:48.95	0.01
			Sg	43:04.64	-0.50
MORH	137.4	183	Sn	8:43:09.66	-1.53
PKSM	137.9	183	Sn	8:43:09.59	-1.70
MODS	149.6	313	eSn	8:43:12.20	-1.69

206.

2019-03-08 time: 9:34:00.32 UTC ML= 1.5
lat: 47.519N lon: 18.615E h= 0.0 km
erh= 7.1km erz= 700km
nr= 8 gap=221 rms=0.57
Locality: Bicske
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	22.0	230	Pg	9:34:04.24	-0.01
			Sg	34:07.76	0.44
CSKK	31.8	237	Pg	9:34:05.95	-0.06
			Sg	34:10.45	0.01
PKST	52.5	237	Sg	9:34:16.21	-0.79
MPLH	90.0	245	Sg	9:34:28.67	-0.27
VYHS	109.7	9	Pg	9:34:20.85	0.94
			Sg	34:34.04	-1.15

Földrengés paraméterek

207.

2019-03-08 time: 10:16:45.78 UTC ML= 1.9
lat: 47.000N lon: 22.257E h= 0.0 km
erh= 3.0km erz= 2.3km
nr= 6 gap=249 rms=0.72
Locality: Romania
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
DRGR	41.6	124	Pg	10:16:53.63	0.42
			Sg	16:58.65	-0.35
ARCR	159.6	87	Pn	10:17:13.06	0.34
			Sn	17:32.54	-1.19
BZS	161.4	198	Pn	10:17:13.51	0.56
			Sn	17:32.59	-1.55

208.

2019-03-08 time: 10:35:23.70 UTC ML= 1.8
lat: 46.057N lon: 22.747E h= 0.0 km
erh= 3.5km erz= 3.6km
nr= 6 gap=194 rms=0.60
Locality: Romania
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
DRGR	81.7	358	Pg	10:35:38.39	0.11
			Sg	35:48.89	-0.77
BZS	100.5	241	Pg	10:35:42.16	0.51
			Sg	35:54.56	-1.09
ARCR	168.1	47	Pn	10:35:52.29	0.61
			Sn	36:13.18	-0.34
MLR	256.6	104	Sn	10:36:30.31	-2.86*

209.

2019-03-08 time: 14:04:50.73 UTC ML= 1.0
lat: 47.103N lon: 18.122E h= 0.0 km
erh= 1.6km erz= 456km
nr= 8 gap=138 rms=0.32
Locality: Berhida
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	18.6	339	Pg	14:04:53.52	-0.52
			Sg	04:56.64	0.01
CSKK	30.8	20	Pg	14:04:56.47	0.25
			Sg	05:00.69	0.18
MPLH	44.8	280	Sg	14:05:05.29	0.32
PKSM	106.7	158	Pg	14:05:10.07	0.28
			Sg	05:24.23	-0.42
KOVH	112.8	181	Sg	14:05:26.37	-0.21

210.

2019-03-08 time: 23:22:20.25 UTC ML= 0.1
lat: 47.352N lon: 18.283E h= 3.4 km
erh= 6.3km erz= 4.5km
nr= 6 gap=180 rms=0.14
Locality: Csákberény
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	2.1	307	PgU	23:22:20.93	-0.03
			Sg	22:21.51	-0.01
PKSG	9.3	61	Pg	23:22:22.01	0.00
			Sg	22:23.54	0.16
PKST	21.4	241	Pg	23:22:23.96	-0.16
			Sg	22:27.57	0.42

Hypocenter Parameters

211.

2019-03-09 time: 0:21:40.14 UTC ML= 1.1
lat: 47.383N lon: 18.261E h= 8.2 km
erh= 2.1km erz= 1.0km
nr= 9 gap=213 rms=0.21
Locality: Mór
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	2.2	181	PgU	0:21:41.56	-0.11
			Sg	21:42.17	-0.69
PKSG	9.8	84	PgD	0:21:42.56	0.12
			Sg	21:44.08	-0.14
PKST	22.0	231	Pg	0:21:44.38	0.04
			Sg	21:47.88	0.27
NADP	30.3	117	Sg	0:21:50.46	0.33
MORH	133.0	167	Sn	0:22:20.16	-0.14
PKSM	133.4	167	Sn	0:22:20.24	-0.15

212.

2019-03-09 time: 0:22:23.22 UTC ML= 0.5
lat: 47.376N lon: 18.265E h= 5.1 km
erh= 1.1km erz= 0.8km
nr= 7 gap=207 rms=0.11
Locality: Csókakő
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	1.5	193	Pg	0:22:24.23	0.05
			Sg	22:24.80	-0.12
PKSG	9.6	80	Pg	0:22:25.24	0.07
			Sg	22:26.70	0.01
PKST	21.8	233	Pg	0:22:27.12	-0.10
			Sg	22:30.65	0.31
NADP	29.7	116	Sg	0:22:32.72	-0.10

213.

2019-03-09 time: 0:23:01.70 UTC ML= 0.7
lat: 47.400N lon: 18.245E h= 1.9 km
erh= 3.3km erz= 6.4km
nr= 6 gap=229 rms=0.09
Locality: Pusztavám
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	4.3	164	Pg	0:23:02.42	-0.11
			Sg	23:03.21	0.02
PKSG	11.0	95	PgU	0:23:03.74	0.04
			Sg	23:05.29	0.04
PKST	22.4	225	Pg	0:23:05.65	-0.06
			Sg	23:09.03	0.20

214.

2019-03-09 time: 0:23:24.04 UTC ML= 0.8
lat: 47.396N lon: 18.261E h= 8.0 km
erh= 2.8km erz= 1.3km
nr= 9 gap=224 rms=0.29
Locality: Pusztavám
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	3.7	181	Pg	0:23:25.53	-0.08
			Sg	23:26.12	-0.72
PKSG	9.8	93	PgD	0:23:26.48	0.19
			Sg	23:27.94	-0.11
PKST	23.0	228	Pg	0:23:28.35	-0.03
			Sg	23:32.16	0.39

Hypocenter Parameters

NADP 31.0 120 Sg 0:23:34.52 0.30
MORH 134.4 167 Sn 0:24:04.81 0.24
PKSM 134.8 168 Sn 0:24:04.08 -0.57

215.

2019-03-09 time: 0:24:09.70 UTC ML= 0.0
lat: 47.354N lon: 18.281E h= 4.0 km
erh= 2.2km erz= 1.3km
nr= 5 gap=178 rms=0.09
Locality: Csókakő
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	1.9	305	Pg	0:24:10.42	-0.07
			Sg	24:11.09	-0.01
PKSG	9.3	63	Pg	0:24:11.46	-0.06
			Sg	24:13.11	0.18
PKST	21.4	241	Sg	0:24:16.70	0.08

216.

2019-03-09 time: 1:12:45.69 UTC ML= 0.2
lat: 47.383N lon: 18.264E h= 4.4 km
erh= 8.2km erz= 2.7km
nr= 6 gap=212 rms=0.14
Locality: Mór
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	2.2	187	PgU	1:12:46.58	0.02
			Sg	12:47.09	-0.15
PKSG	9.6	84	PgU	1:12:47.68	0.11
			Sg	12:49.01	-0.04
PKST	22.2	232	Pg	1:12:49.57	-0.15
			Sg	12:53.19	0.32

217.

2019-03-09 time: 9:31:21.70 UTC ML= 0.7
lat: 46.181N lon: 18.289E h= 0.0 km
erh= 1.2km erz= 224km
nr= 8 gap=207 rms=0.16
Locality: Zobákpusztá
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	17.9	235	Pg	9:31:24.82	-0.08
			Sg	31:27.78	0.39
PKSM	27.4	83	Pg	9:31:26.37	-0.22
			Sg	31:30.44	0.03
MORH	27.7	82	Pg	9:31:26.82	0.18
			Sg	31:30.59	0.09
PKSV	32.7	185	Pg	9:31:27.53	0.00
			Sg	31:31.94	-0.15

218.

2019-03-11 time: 10:34:52.42 UTC ML= 1.5
lat: 47.857N lon: 19.829E h= 0.0 km
erh= 5.7km erz= ***km
nr= 8 gap=179 rms=0.85
Locality: Gyöngyöspata
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	8.4	36	Pg	10:34:54.35	0.44
			Sg	34:56.04	0.96
PENC	41.7	260	Pg	10:35:00.06	0.20
			Sg	35:07.05	1.39

Földrengés paraméterek

A336 74.7 304 Sg 10:35:15.36 -0.80
KECS 85.0 35 Sg 10:35:19.07 -0.38
ABAH 115.9 65 Sg 10:35:28.31 -0.94
PKSG 119.9 244 Sg 10:35:28.83 -1.69

219.

2019-03-11 time: 10:49:13.76 UTC ML= 2.0
lat: 48.302N lon: 18.617E h= 0.0 km
erh= 3.1km erz= 6.6km
nr= 15 gap=119 rms=1.07
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
A336	29.4	105	Pg	10:49:19.69	0.68
			Sg	49:23.67	0.57
A338	37.4	212	Sg	10:49:26.09	0.43
PENC	75.4	139	Sg	10:49:37.89	0.15
A339	88.8	234	Pg	10:49:31.92	2.30
MODS	99.6	275	ePg	10:49:31.60	0.05
			eSg	49:43.60	-1.83
PKSG	102.6	189	Pg	10:49:32.30	0.22
			Sg	49:45.20	-1.17
PSZ	104.3	114	Sg	10:49:45.90	-1.00
LANS	113.3	34	ePg	10:49:33.30	-0.69
			eSg	49:48.50	-1.27
PKST	123.9	201	Sg	10:49:50.55	-2.59
KECS	139.9	82	ePn	10:49:38.10	-0.14
			eSn	49:57.30	-0.03

220.

2019-03-11 time: 11:01:01.36 UTC ML= 2.0
lat: 48.180N lon: 16.915E h= 0.0 km
erh= 2.0km erz= 3.7km
nr= 14 gap=106 rms=0.66
Locality: Austria
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
MODS	34.5	51	ePg	11:01:07.70	0.18
			eSg	01:12.40	0.08
RONA	70.6	221	Pg	11:01:13.68	-0.29
			Sg	01:22.30	-1.51
CONA	83.4	250	Pg	11:01:17.10	0.85
			Sg	01:27.65	-0.21
EGYH	90.4	160	Sg	11:01:30.26	0.18
KRUC	105.3	339	Pg	11:01:20.77	0.61
			Sg	01:34.33	-0.50
MPLH	121.7	157	Sg	11:01:38.89	-1.14
VRAC	127.7	349	Pg	11:01:24.13	-0.03
			Sg	01:40.60	-1.35
ARSA	146.9	225	Pn	11:01:27.35	0.64
			Sn	01:46.38	-0.11

221.

2019-03-11 time: 11:16:13.53 UTC ML= 1.5
lat: 47.027N lon: 17.798E h= 0.0 km
erh= 2.0km erz= 707km
nr= 15 gap=142 rms=0.61
Locality: Tótvázsony
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
TIH	15.9	153	Pg	11:16:16.89	0.52
			Sg	16:19.85	1.27
MPLH	25.2	309	Pg	11:16:18.42	0.39
			Sg	16:20.99	-0.55
PKST	31.4	35	Pg	11:16:18.68	-0.46
			Sg	16:23.02	-0.49

Földrengés paraméterek

CSKK	51.2	43	Pg	11:16:23.01	0.33
			Sg	16:29.65	-0.17
PKB5	86.2	124	Pg	11:16:29.93	1.00
KOVH	106.9	167	Pg	11:16:32.69	0.07
			Sg	16:46.46	-1.05
MORH	111.1	144	Pg	11:16:33.25	-0.12
			Sg	16:47.75	-1.09
PKSM	111.3	145	Pg	11:16:33.20	-0.21
			Sg	16:47.90	-1.02

222.

2019-03-11 time: 11:40:16.23 UTC ML= 2.1
lat: 47.327N lon: 18.412E h= 0.0 km
erh= 2.5km erz= 4.6km
nr= 9 gap=148 rms=0.63
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	7.4	347	PgU	11:40:17.67	0.13
			Sg	40:18.09	-0.48
CSKK	12.1	289	Pg	11:40:19.07	0.68
			Sg	40:20.46	0.38
PKST	29.5	255	Sg	11:40:24.70	-0.92
A336	109.9	24	Sg	11:40:49.28	-1.89
MORH	124.8	172	Sg	11:40:55.86	-0.04
PKSM	125.2	172	Sg	11:40:56.14	0.11
KOVH	139.8	190	Sn	11:41:00.08	0.31

223.

2019-03-11 time: 17:45:31.03 UTC ML= 1.1
lat: 46.338N lon: 17.306E h= 3.8 km
erh= 0.3km erz= 0.2km
nr= 5 gap=175 rms=0.01
Locality: Segesd
Comments:

sta	dist	azm	phase	hr mn sec	res
BEHE	43.3	290	Sg	17:45:44.85	-0.01

224.

2019-03-11 time: 19:08:26.56 UTC ML= 2.1
lat: 47.404N lon: 18.392E h= 0.3 km
erh= 1.5km erz= 4.4km
nr= 7 gap=248 rms=0.14
Locality: Gánt
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSG	1.4	185	Pg	19:08:26.59	-0.22
			Sg	08:26.97	-0.03
CSKK	10.9	246	Pg	19:08:28.46	-0.06
			Sg	08:30.27	0.23
NADP	23.6	134	Pg	19:08:30.90	0.13
			Sg	08:34.09	0.04
PKST	31.5	239	Sg	19:08:36.60	0.03

225.

2019-03-12 time: 9:36:50.02 UTC ML= 1.6
lat: 48.596N lon: 20.770E h= 0.0 km
erh= 1.7km erz= 3.9km
nr= 13 gap= 87 rms=0.60
Locality: Slovakia
Comments: probably explosion

Hypocenter Parameters

sta	dist	azm	phase	hr mn sec	res
KECS	24.5	239	Pg	9:36:54.11	-0.28
			Sg	36:57.36	-0.44
ABAH	48.2	134	Pg	9:36:58.74	0.12
			Sg	37:04.91	-0.42
NIE	97.4	340	Pg	9:37:08.37	0.95
STHS	97.6	21	ePg	9:37:07.10	-0.35
			eSg	37:20.20	-0.85
PSZ	99.5	221	PgU	9:37:08.79	0.99
			Sg	37:21.67	0.01
LANS	113.7	303	ePg	9:37:10.10	-0.23
			eSg	37:24.30	-1.87
KOLS	116.7	71	Sg	9:37:26.85	-0.26
A336	137.2	253	Sn	9:37:32.18	-0.81

226.

2019-03-12 time: 9:56:44.07 UTC ML= 1.9
lat: 45.567N lon: 17.449E h= 10.0 km
erh= 2.7km erz= 2.2km
nr= 14 gap=133 rms=0.62
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	72.0	60	Pg	9:56:58.02	0.96
			Sg	57:06.27	-0.92
KOVH	77.0	41	Pg	9:56:58.44	0.51
			Sg	57:07.35	-1.39
BLY	93.2	193	Pg	9:57:00.62	-0.19
			Sg	57:12.87	-1.00
PKSM	117.1	52	Pn	9:57:04.64	0.22
			Sn	57:19.25	-1.05
MORH	117.5	52	Pn	9:57:04.61	0.13
			Sn	57:19.45	-0.95
PTJ	121.8	288	Pn	9:57:05.34	0.32
KOGS	135.0	317	Pn	9:57:06.90	0.24
			Sn	57:24.30	0.02
PKB4	136.7	41	Sn	9:57:25.00	0.36

227.

2019-03-12 time: 10:13:24.51 UTC ML= 0.9
lat: 46.247N lon: 18.236E h= 0.0 km
erh= 4.2km erz= 487km
nr= 7 gap=245 rms=0.33
Locality: Mecsekpölöske
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	20.5	211	Pg	10:13:28.31	0.13
			Sg	13:31.12	0.08
PKSM	31.5	97	Pg	10:13:29.97	-0.16
			Sg	13:34.94	0.42
MORH	31.6	96	Pg	10:13:30.02	-0.14
			Sg	13:34.84	0.27
PKSV	39.8	178	Sg	10:13:35.74	-1.43

228.

2019-03-12 time: 10:17:48.95 UTC ML= 0.8
lat: 47.094N lon: 18.357E h= 0.0 km
erh= 4.7km erz= 981km
nr= 7 gap=171 rms=0.66
Locality: Kőszárhegy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	30.6	307	Pg	10:17:54.91	0.50
			Sg	17:58.23	-0.44
CSKK	30.8	346	Pg	10:17:54.77	0.32
			Sg	17:57.40	-1.34

Hypocenter Parameters

PKSG 33.2 4 Pg 10:17:55.49 0.61
Sg 17:59.20 -0.30
PKB1 47.8 136 Sg 10:18:03.06 -1.09

229.

2019-03-12 time: 10:44:51.66 UTC ML= 2.2
lat: 48.230N lon: 21.264E h= 0.0 km
erh= 4.7km erz= 4.0km
nr= 9 gap=208 rms=0.74
Locality: Tállya
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	7.6	346	Pg	10:44:53.40	0.39
			Sg	44:54.80	0.73
KECS	64.2	296	Pg	10:45:03.44	0.31
			Sg	45:11.42	-0.65
PSZ	107.8	251	Pg	10:45:11.42	0.51
			Sg	45:24.38	-1.54
KOLS	108.0	44	Sg	10:45:25.18	-0.80
NIE	149.5	332	Sn	10:45:36.07	-1.30
A336	168.3	270	Sn	10:45:42.20	0.67

230.

2019-03-12 time: 13:00:05.75 UTC ML= 2.0
lat: 48.511N lon: 19.798E h= 0.0 km
erh= 7.0km erz= ***km
nr= 9 gap= 99 rms=1.99
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	50.9	93	Pg	13:00:16.68	1.84
			Sg	00:23.11	1.18
PSZ	66.3	174	Pg	13:00:16.97	-0.61
			Sg	00:23.39	-3.42
A336	66.8	242	Pg	13:00:20.28	2.61
			Sg	00:27.61	0.64
LANS	75.2	341	Sg	13:00:27.29	-2.35
NIE	107.8	20	Sg	13:00:37.45	-2.57
ABAH	109.4	103	Sg	13:00:39.03	-1.48

231.

2019-03-12 time: 15:02:33.93 UTC ML= 2.0
lat: 48.358N lon: 20.952E h= 10.0 km
erh= 1.8km erz= 1.4km
nr= 15 gap= 95 rms=0.45
Locality: Selyeb
Comments:

sta	dist	azm	phase	hr mn sec	res
ABAH	22.4	108	Pg	15:02:38.59	0.27
			Sg	02:41.62	-0.12
KECS	37.2	292	Pg	15:02:40.92	0.11
			Sg	02:45.38	-0.80
PSZ	92.6	238	Pg	15:02:50.56	-0.01
			Sg	03:03.01	-0.53
KOLS	116.5	57	Pn	15:02:54.58	0.36
			Sn	03:09.33	-0.71
STHS	119.7	10	Pn	15:02:54.79	0.18
			Sn	03:08.72	-2.02
NIE	127.0	338	Pn	15:02:55.65	0.13
			Sn	03:11.58	-0.77
LANS	140.3	309	Pn	15:02:57.78	0.60
A336	145.5	265	Sn	15:03:16.96	0.48
DRGR	218.7	143	Sn	15:03:31.77	-0.95

Földrengés paraméterek

232.

2019-03-12 time: 15:55:50.26 UTC ML= 1.9
lat: 46.107N lon: 21.747E h= 4.5 km
erh= 1.6km erz= 1.6km
nr= 22 gap= 59 rms=0.67
Locality: Romania
Comments:

sta	dist	azm	phase	hr mn sec	res
SIRR	19.1	339	PgC	15:55:54.17	0.40
			Sg	55:56.80	0.29
SURR	48.9	143	PgD	15:55:59.66	0.62
			Sg	56:05.50	-0.38
BZS	55.4	191	Pg	15:56:00.49	0.30
			Sg	56:07.37	-0.56
AMBH	83.3	289	Sg	15:56:15.59	-1.20
DRGR	106.2	44	Pg	15:56:09.20	-0.05
			Sg	56:22.22	-1.83
GZR	112.7	135	PgC	15:56:10.31	-0.09
			Sg	56:25.30	-0.81
MARR	123.0	59	PnC	15:56:11.67	-0.38
HERR	145.9	159	PnC	15:56:15.42	0.51
			Sn	56:33.20	-0.93
MDVR	147.3	181	PnC	15:56:15.95	0.87
			Sn	56:33.60	-0.84
MESR	148.1	38	Sn	15:56:34.80	0.19
CJR	157.5	65	PnC	15:56:17.20	0.85
			Sn	56:36.00	-0.70
LOT	173.5	115	PnD	15:56:19.34	0.99
			Sn	56:41.30	1.05
FRGS	185.7	234	Sn	15:56:42.49	-0.48

233.

2019-03-12 time: 23:23:17.82 UTC ML= 1.3
lat: 45.607N lon: 18.007E h= 18.4 km
erh= 3.8km erz= 1.4km
nr= 7 gap=331 rms=0.21
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	36.7	31	Pg	23:23:24.95	-0.20
			Sg	23:31.02	0.15
KOVH	54.0	8	Pg	23:23:28.24	0.23
			Sg	23:35.79	-0.17
PKSM	83.4	36	P*	23:23:32.48	-0.05
MORH	83.9	36	P*	23:23:32.48	-0.13
			S*	23:44.73	0.59

234.

2019-03-13 time: 8:58:22.72 UTC ML= 1.6
lat: 47.948N lon: 20.012E h= 10.0 km
erh= 3.4km erz= 4.6km
nr= 7 gap=182 rms=0.44
Locality: Bodony
Comments:

sta	dist	azm	phase	hr mn sec	res
PSZ	9.4	249	Pg	8:58:25.41	0.24
			Sg	58:26.87	-0.22
PENC	57.4	252	Sg	8:58:40.60	-0.64
KECS	69.1	31	Sg	8:58:44.99	0.07
A336	81.9	293	Sg	8:58:48.94	0.00
ABAH	99.2	67	Pg	8:58:41.05	0.52
			Sg	58:53.58	-0.84

Földrengés paraméterek

235.

2019-03-13 time: 9:30:49.50 UTC ML= 1.0
lat: 46.176N lon: 18.298E h= 0.0 km
erh= 0.7km erz= 119km
nr= 7 gap=203 rms=0.08
Locality: Zobákpusztá
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	18.1	237	Pg	9:30:52.63	-0.11
			Sg	30:55.42	0.15
PKSM	26.8	82	Pg	9:30:54.36	0.07
			Sg	30:58.03	0.00
MORH	27.1	81	Pg	9:30:54.30	-0.04
PKSV	32.2	186	Pg	9:30:55.28	0.03
			Sg	30:59.67	-0.06

236.

2019-03-13 time: 9:41:20.10 UTC ML= 1.9
lat: 47.897N lon: 20.067E h= 0.0 km
erh= 2.9km erz= 480km
nr= 8 gap=196 rms=0.35
Locality: Paráđ
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	13.1	280	PgU	9:41:22.47	0.03
			Sg	41:24.18	-0.10
PENC	60.0	259	Pg	9:41:30.76	-0.05
			Sg	41:38.54	-0.63
KECS	72.2	26	Sg	9:41:42.66	-0.38
A336	88.0	295	Pg	9:41:36.10	0.29
ABAH	97.9	63	Pg	9:41:38.09	0.51
			Sg	41:50.71	-0.51

237.

2019-03-13 time: 11:56:04.60 UTC ML= 1.7
lat: 47.334N lon: 18.383E h= 0.0 km
erh= 1.9km erz= 645km
nr= 10 gap=110 rms=0.50
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	6.5	5	Pg	11:56:05.68	-0.08
			Sg	56:06.23	-0.43
CSKK	9.8	289	Pg	11:56:06.83	0.48
			Sg	56:08.39	0.68
NADP	19.7	115	Sg	11:56:11.13	0.27
PKST	27.6	252	Pg	11:56:09.97	0.44
			Sg	56:12.51	-0.87
MPLH	66.4	254	Pg	11:56:15.87	-0.58
MORH	125.9	171	Pg	11:56:27.34	0.26
			Sg	56:43.71	-0.90

238.

2019-03-13 time: 12:04:35.38 UTC ML= 1.0
lat: 47.233N lon: 18.271E h= 0.0 km
erh= 2.3km erz= 339km
nr= 8 gap=236 rms=0.24
Locality: Iszkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	14.5	357	Pg	12:04:38.05	0.08
			Sg	04:40.20	0.21
PKST	18.2	279	Pg	12:04:38.35	-0.27

Hypocenter Parameters

			Sg	04:41.06	-0.09
PKSG	19.8	27	Pg	12:04:38.74	-0.18
			Sg	04:41.48	-0.20
MPLH	55.9	263	Pg	12:04:45.83	0.47
			Sg	04:53.16	0.02

239.

2019-03-14 time: 9:43:31.44 UTC ML= 1.9
lat: 46.847N lon: 17.321E h= 0.0 km
erh= 4.6km erz= 524km
nr= 6 gap=190 rms=0.31
Locality: Lesencefalu
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
MPLH	39.6	25	Pg	9:43:38.69	0.18
			Sg	43:43.68	-0.35
PKST	71.0	50	Pg	9:43:44.03	-0.09
			Sg	43:53.57	-0.44
CSKK	91.6	51	Sg	9:44:01.25	0.70
KOGS	93.2	242	Sg	9:44:01.12	0.06

240.

2019-03-14 time: 9:48:24.54 UTC ML= 1.7
lat: 45.715N lon: 17.288E h= 13.2 km
erh= 2.7km erz= 1.8km
nr= 10 gap=131 rms=0.38
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	75.4	57	Pg	9:48:38.37	0.16
			Sg	48:48.48	-0.39
PKSV	77.3	76	Pg	9:48:38.51	-0.04
			Sg	48:49.28	-0.20
BLY	107.7	184	Pn	9:48:43.06	-0.27
KOGS	114.4	315	Sn	9:48:59.16	-0.29
PKSM	118.5	62	Pn	9:48:45.30	0.63
			Sn	48:59.77	-0.59
MORH	118.9	62	Pn	9:48:45.23	0.51
			Sn	49:00.09	-0.36

241.

2019-03-14 time: 20:02:43.21 UTC ML= 1.3
lat: 46.476N lon: 17.332E h= 0.7 km
erh= 5.0km erz= 200km
nr= 6 gap=187 rms=0.67
Locality: Nagyszakácsi
Comments:

sta	dist	azm	phase	hr mn sec	res
TIH	63.8	42	Sg	20:03:03.53	0.05
KOVH	73.2	126	Sg	20:03:05.87	-0.60

242.

2019-03-15 time: 9:09:05.17 UTC ML= 1.5
lat: 48.550N lon: 20.758E h= 0.0 km
erh= 4.6km erz= 572km
nr= 6 gap=239 rms=0.34
Locality: Komjáti
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	21.5	250	Pg	9:09:09.21	0.21
			Sg	09:11.77	-0.22
ABAH	45.5	128	Pg	9:09:13.63	0.35

Hypocenter Parameters

PSZ 95.1 222 Sg 09:19.20 -0.41
Pg 9:09:21.73 -0.42
Sg 09:35.75 0.35

243.

2019-03-15 time: 9:26:53.65 UTC ML= 1.9
lat: 47.003N lon: 22.311E h= 0.0 km
erh= 2.3km erz= 2.7km
nr= 38 gap= 45 rms=1.35
Locality: Romania
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
DRGR	38.5	128	Pg	9:27:00.97			0.44
			Sg	27:05.79			-0.11
BORR	41.1	284	PgC	9:27:02.43			1.45
			Sg	27:08.00			1.30
MESR	51.2	71	PgD	9:27:04.18			1.39
			Sg	27:10.50			0.59
MARR	71.6	121	PgD	9:27:06.63			0.20
			Sg	27:15.30			-1.10
SIRR	95.8	211	PgD	9:27:10.82			0.06
			Sg	27:21.90			-2.20
CJR	103.3	108	PgC	9:27:12.26			0.16
			Sg	27:25.30			-1.19
BMR	116.5	50	PgC	9:27:15.35			0.89
			Sg	27:30.10			-0.59
TRPA	126.5	8	Pg	9:27:12.42			-3.82
			Sg	27:31.70			-2.16
DEV	132.6	160	Sn	9:27:32.20			-3.39
SURR	139.6	186	PnC	9:27:18.09			0.00
			Sn	27:34.70			-2.46
AMBH	141.4	239	Sn	9:27:36.57			-0.97
ARCR	155.5	87	Pn	9:27:21.16			1.08
			Sn	27:40.49			-0.20
BZS	163.1	199	Pn	9:27:21.41			0.38
			Sn	27:40.74			-1.64
ABAH	164.7	331	Pn	9:27:20.41			-0.82
			Sn	27:41.34			-1.39
GZR	182.5	169	PnC	9:27:24.75			1.31
			Sn	27:46.60			-0.08
LOT	206.3	147	PnD	9:27:27.50			1.09
			Sn	27:52.60			0.64
PSZ	208.7	299	PnC	9:27:29.38			2.67
			Sn	27:54.30			1.81
BURA	230.0	73	PnD	9:27:31.50			2.13
			Sn	27:58.60			1.37
HERR	236.0	178	PnC	9:27:31.66			1.54
			Sn	27:58.60			0.04
MDVR	251.3	191	PnC	9:27:32.53			0.51
			Sn	28:02.30			0.36

244.

2019-03-15 time: 10:42:09.14 UTC ML= 1.6
lat: 46.111N lon: 21.730E h= 8.6 km
erh= 3.3km erz= 2.9km
nr= 12 gap=100 rms=0.75
Locality: Romania
Comments:

sta	dist	azm	phase	hr	mn	sec	res
SIRR	18.2	343	PgC	10:42:12.73			0.00
			Sg	42:15.60			0.07
SURR	50.1	142	PgD	10:42:18.91			0.70
BZS	55.7	189	Pg	10:42:18.85			-0.34
			Sg	42:25.78			-1.26
AMBH	81.9	289	Sg	10:42:35.32			0.00
DRGR	106.8	45	Pg	10:42:23.82			-4.44*
GZR	114.0	134	PnD	10:42:28.93			-0.36
			Sn	42:44.10			-0.91
MARR	123.9	60	PnD	10:42:31.36			0.84

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MDVR 147.8 181 Sn 42:46.10 -1.10
PnD 10:42:34.99 1.49
Sn 42:53.10 0.59

245.

2019-03-15 time: 10:51:08.13 UTC ML= 1.9
lat: 48.472N lon: 22.602E h= 0.0 km
erh= 1.7km erz= 1.6km
nr= 12 gap=174 rms=0.38
Locality: Ukraine
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
TRPA	38.3	187	Pg	10:51:15.30			0.33
			Sg	51:20.45			0.15
KOLS	56.7	335	Pg	10:51:18.44			0.18
			Sg	51:25.87			-0.29
ABAH	102.8	259	Pg	10:51:25.87			-0.62
			Sg	51:40.98			0.17
KWP	129.2	3	Pg	10:51:30.79			-0.41
STHS	144.7	317	Pn	10:51:33.45			0.24
			Sn	51:53.33			0.56
KECS	156.5	270	ePn	10:51:35.00			0.32
			eSn	51:54.50			-0.88
DRGR	187.0	177	Sn	10:52:01.84			-0.32

246.

2019-03-15 time: 10:52:43.60 UTC ML= 1.5
lat: 48.478N lon: 22.631E h= 0.0 km
erh= 1.8km erz= 4.1km
nr= 6 gap=217 rms=0.36
Locality: Ukraine
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
TRPA	39.3	190	Pg	10:52:50.53			-0.08
KOLS	57.1	333	Pg	10:52:53.89			0.10
			Sg	53:01.12			-0.62
ABAH	105.0	259	Pg	10:53:02.28			-0.08
			Sg	53:17.04			0.05
KECS	158.6	270	ePn	10:53:11.50			1.08

247.

2019-03-15 time: 10:59:58.22 UTC ML= 1.9
lat: 48.136N lon: 16.924E h= 0.0 km
erh= 2.7km erz= 2.9km
nr= 15 gap= 97 rms=0.87
Locality: Austria
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
MODS	37.2	45	ePg	11:00:04.90			0.04
			eSg	00:09.50			-0.54
SMOL	56.2	42	Pg	11:00:09.48			1.22
			Sg	00:16.06			-0.03
RONA	67.5	224	Pg	11:00:10.26			-0.02
			Sg	00:18.84			-0.84
CONA	82.5	254	Pg	11:00:13.30			0.34
			Sg	00:24.00			-0.46
KRUC	110.1	339	Pg	11:00:18.72			0.85
			Sg	00:32.03			-1.17
VRAC	132.6	349	Sn	11:00:38.15			-2.01
PKSG	137.6	127	Sn	11:00:38.66			-2.62
ARSA	144.1	227	Pn	11:00:23.84			0.62
			Sn	00:42.22			-0.50
A336	154.7	86	Sn	11:00:45.08			0.01

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248.

2019-03-15 time: 13:50:05.94 UTC ML= 1.3
lat: 46.096N lon: 21.765E h= 0.0 km
erh= 1.5km erz= 3.2km
nr= 13 gap= 97 rms=0.54
Locality: Romania
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
SIRR	20.8	337	PgD	13:50:09.38	-0.27
			Sg	50:12.20	-0.35
BZS	54.5	192	Pg	13:50:15.64	-0.02
			Sg	50:22.76	-0.49
AMBH	85.1	289	Sg	13:50:33.54	0.56
DRGR	106.2	43	Pg	13:50:25.33	0.43
			Sg	50:39.03	-0.66
GZR	110.8	135	PgD	13:50:26.89	1.16
			Sg	50:41.10	-0.07
MARR	122.5	58	PgC	13:50:28.43	0.61
			Sg	50:44.00	-0.88
MDVR	146.1	182	PnC	13:50:30.97	-0.22
			Sn	50:50.20	-0.68

249.

2019-03-16 time: 15:08:16.69 UTC ML= 2.4
lat: 45.663N lon: 17.914E h= 10.0 km
erh= 2.9km erz= 2.0km
nr= 29 gap=162 rms=0.67
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	36.3	46	Pg	15:08:23.84	0.42
			Sg	08:28.62	-0.05
KOVH	49.4	17	Pg	15:08:25.98	0.28
			Sg	08:31.60	-1.12
PKSM	83.1	43	Pg	15:08:31.50	-0.14
			Sg	08:41.76	-1.53
MORH	83.6	43	Pg	15:08:31.55	-0.17
PKS9	106.5	15	P*	15:08:35.95	0.24
BLY	116.7	209	Pn	15:08:36.79	-0.21
			Sn	08:51.09	-1.74
PKB5	121.5	32	Pn	15:08:38.49	0.89
			Sn	08:52.65	-1.26
BEHE	125.7	316	Pn	15:08:37.96	-0.17
			Sn	08:53.26	-1.58
PKS2	136.4	47	Pn	15:08:38.57	-0.88
TIH	137.5	359	Pn	15:08:39.54	-0.05
PKB1	141.9	29	Pn	15:08:40.23	0.09
			Sn	08:59.57	1.15
PTJ	154.4	280	Pn	15:08:41.53	-0.17
MPLH	170.0	350	Pn	15:08:44.44	0.80
PKST	177.7	3	Pn	15:08:45.03	0.43
PKS7	181.4	32	Pn	15:08:46.08	1.02
PKSG	195.6	11	Pn	15:08:47.82	0.98
GROS	206.7	295	Pn	15:08:48.00	-0.22
SOKA	249.5	297	Pn	15:08:53.55	-0.01
RONA	258.0	331	Pn	15:08:55.28	0.66
OBKA	276.8	290	Pn	15:08:57.51	0.55
CONA	296.6	328	Pn	15:09:00.04	0.61
			Sn	09:33.77	1.00*
MOA	369.8	311	Pn	15:09:09.68	1.12*

250.

2019-03-18 time: 8:39:49.61 UTC ML= 1.8
lat: 46.055N lon: 22.784E h= 0.0 km
erh= 4.2km erz= 4.6km
nr= 6 gap=195 rms=0.52
Locality: Romania
Comments: probably explosion

Hypocenter Parameters

sta	dist	azm	phase	hr mn sec	res
DRGR	82.1	356	Pg	8:40:04.35	0.07
			Sg	40:15.20	-0.52
BZS	102.9	242	Pg	8:40:08.37	0.38
			Sg	40:21.63	-0.70
ARCR	166.2	46	Pn	8:40:18.01	0.64
			Sn	40:38.05	-0.97

251.

2019-03-18 time: 11:45:15.70 UTC ML= 1.2
lat: 46.141N lon: 18.049E h= 0.0 km
erh= 1.8km erz= 249km
nr= 8 gap=289 rms=0.18
Locality: Hetvehely
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	7.1	146	Pg	11:45:16.95	-0.01
			Sg	45:18.25	0.30
PKSV	32.2	151	Pg	11:45:21.27	-0.18
			Sg	45:25.71	-0.22
PKSM	46.4	80	Pg	11:45:24.13	0.14
			Sg	45:30.30	-0.15
MORH	46.7	80	Pg	11:45:24.25	0.21
			Sg	45:30.30	-0.25

252.

2019-03-19 time: 9:24:06.33 UTC ML= 2.0
lat: 47.332N lon: 18.394E h= 0.0 km
erh= 2.7km erz= 862km
nr= 6 gap=118 rms=0.50
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	6.7	358	PgU	9:24:07.54	0.01
			Sg	24:08.08	-0.38
NADP	18.8	116	Sg	9:24:13.22	0.91
PKST	28.4	253	Sg	9:24:15.88	0.52
MORH	125.5	171	Sg	9:24:45.64	-0.58
PKSM	125.9	171	Sg	9:24:45.85	-0.50

253.

2019-03-20 time: 8:54:15.69 UTC ML= 1.2
lat: 47.286N lon: 17.641E h= 0.0 km
erh= 3.4km erz= 743km
nr= 5 gap=154 rms=0.34
Locality: Homokbödöge
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
MPLH	15.0	211	Pg	8:54:18.60	0.23
			Sg	54:20.22	-0.24
EGYH	27.5	302	Pg	8:54:20.57	-0.03
PKST	29.9	96	Pg	8:54:21.23	0.20
			Sg	54:24.07	-1.13

254.

2019-03-20 time: 9:05:01.51 UTC ML= 1.7
lat: 46.822N lon: 22.874E h= 0.0 km
erh= 3.1km erz= 2.2km
nr= 16 gap=180 rms=0.63
Locality: Romania
Comments: probably explosion

Hypocenter Parameters

sta	dist	azm	phase	hr mn sec	res
DRGR	12.9	255	Pg	9:05:03.81	0.00
			Sg	05:06.77	1.17
MARR	24.7	131	PgC	9:05:05.67	-0.25
			Sg	05:09.70	0.33
SIRR	111.7	237	PgC	9:05:21.02	-0.43
			Sg	05:34.60	-2.41
ARCR	116.4	75	Sg	9:05:38.10	-0.40
GZR	159.0	183	PnC	9:05:28.96	0.60
			Sn	05:48.20	-1.11
BZS	165.4	216	Pn	9:05:29.07	-0.09
			Sn	05:51.36	0.62
LOT	167.7	156	PnC	9:05:30.29	0.84
			Sn	05:50.80	-0.44
AMBH	172.8	252	Sn	9:05:51.86	-0.52
VOIR	227.9	132	PnC	9:05:37.58	0.62
			Sn	06:04.20	-0.42

255.

2019-03-20 time: 10:25:28.15 UTC ML= 1.3
lat: 47.212N lon: 18.284E h= 0.0 km
erh= 2.0km erz= 497km
nr= 8 gap= 99 rms=0.35
Locality: Iszkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	19.6	285	Pg	10:25:31.39	-0.26
			Sg	25:34.40	0.02
PKSG	21.5	22	Pg	10:25:31.84	-0.15
			Sg	25:34.92	-0.07
NADP	25.7	79	Pg	10:25:32.67	-0.08
			Sg	25:36.82	0.49
MPLH	56.6	265	Pg	10:25:38.73	0.47
PKSM	114.5	166	Sg	10:26:03.02	-1.53

256.

2019-03-20 time: 12:15:27.13 UTC ML= 1.4
lat: 45.565N lon: 17.410E h= 10.0 km
erh= 2.4km erz= 1.1km
nr= 11 gap=227 rms=0.27
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	74.8	61	Pg	12:15:40.64	0.03
			Sg	15:50.70	-0.42
KOVH	79.1	43	Pg	12:15:41.23	-0.14
			Sg	15:52.89	0.41
BEHE	112.0	334	Sn	12:16:02.27	0.05
PTJ	119.0	288	Sn	12:16:00.97	-2.81*
PKSM	119.6	53	Pn	12:15:47.82	0.02
			Sn	16:03.67	-0.26
MORH	120.1	53	Pn	12:15:48.23	0.37
			Sn	16:03.87	-0.15
KOGS	133.0	318	Sn	12:16:06.83	-0.07

257.

2019-03-21 time: 10:17:36.07 UTC ML= 1.8
lat: 47.292N lon: 17.663E h= 0.0 km
erh= 2.0km erz= 3.7km
nr= 14 gap= 94 rms=0.71
Locality: Bakonykoppány
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
MPLH	16.5	215	Pg	10:17:39.10	0.09
			Sg	17:42.54	1.23
PKST	28.3	97	Pg	10:17:41.64	0.51

Földrengés paraméterek

EGYH	28.6	299	Sg	17:45.31	0.23
			Pg	10:17:40.82	-0.37
TIH	46.9	158	Sg	17:45.42	0.25
			Sg	10:17:50.01	-0.99
PKSG	56.1	79	Pg	10:17:45.86	-0.23
SOP	93.9	298	Sg	10:18:04.63	-1.30
A338	95.6	33	Pg	10:17:53.72	0.57
			Sg	18:06.24	-0.24
KOVH	137.9	166	Sn	10:18:18.04	-1.16
PKSM	141.4	148	Pn	10:18:01.45	0.71
			Sn	18:17.15	-2.84

258.

2019-03-21 time: 11:35:32.02 UTC ML= 2.2
lat: 48.227N lon: 21.230E h= 0.0 km
erh= 1.4km erz= 3.1km
nr= 6 gap=155 rms=0.34
Locality: Tállya
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	7.7	5	Pg	11:35:33.50	0.11
			Sg	35:34.65	0.18
TRPA	97.9	96	Pg	11:35:49.76	0.26
			Sg	36:02.62	-0.52
PSZ	105.3	251	Sg	11:36:05.48	-0.01
NIE	148.7	333	Sn	11:36:16.58	-0.96

259.

2019-03-21 time: 11:37:39.35 UTC ML= 1.1
lat: 46.135N lon: 18.027E h= 0.0 km
erh= 1.6km erz= 415km
nr= 11 gap=206 rms=0.34
Locality: Hetvehely
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	7.6	133	Pg	11:37:40.84	0.13
			Sg	37:42.17	0.39
PKSV	32.4	148	Pg	11:37:45.09	-0.06
			Sg	37:49.34	-0.33
PKSM	48.2	80	Pg	11:37:48.11	0.15
			Sg	37:54.08	-0.59
MORH	48.5	79	Pg	11:37:47.98	-0.03
			Sg	37:54.38	-0.38
PKS9	53.9	21	Sg	11:37:57.17	0.69
TIH	85.7	353	Pg	11:37:54.87	0.22
			Sg	38:05.67	-0.92

260.

2019-03-25 time: 9:40:43.83 UTC ML= 1.5
lat: 47.889N lon: 19.186E h= 0.0 km
erh= 3.3km erz= 778km
nr= 8 gap=193 rms=0.55
Locality: Felsőpetény
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	13.1	147	Pg	9:40:46.12	-0.06
			Sg	40:47.87	-0.14
A336	40.7	340	Pg	9:40:51.43	0.33
			Sg	40:55.72	-1.04
PSZ	53.1	87	Pg	9:40:53.63	0.32
			Sg	40:59.26	-1.45
KECS	117.1	56	ePg	9:41:05.30	0.56
			eSg	41:21.00	-0.04

Földrengés paraméterek

261.

2019-03-25 time: 9:47:30.94 UTC ML= 0.9
lat: 47.106N lon: 18.021E h= 0.0 km
erh= 2.9km erz= 875km
nr= 9 gap=127 rms=0.65
Locality: Királyszentistván
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	17.1	4	Pg	9:47:33.70	-0.29
			Sg	47:35.20	-1.16
MPLH	37.2	281	Pg	9:47:38.10	0.52
			Sg	47:42.31	-0.45
PKSG	42.4	41	Pg	9:47:39.43	0.92
			Sg	48:05.06	-0.80
MORH	109.9	154	Pg	9:47:50.68	0.12
			Sg	48:04.81	-1.15

262.

2019-03-25 time: 10:54:51.10 UTC ML= 1.5
lat: 47.452N lon: 18.710E h= 0.0 km
erh= 2.4km erz= 872km
nr= 12 gap= 97 rms=0.72
Locality: Etyek
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
NADP	22.7	198	Pg	10:54:55.49	0.35
			Sg	54:59.71	1.41
BUD	24.0	81	Sg	10:54:59.12	0.41
			Pg	10:54:55.64	0.08
PKSG	25.0	255	Sg	54:59.40	0.37
			Pg	10:55:01.06	0.08
PKST	55.3	247	Sg	55:08.67	-0.02
			Sg	10:55:18.74	-0.82
MPLH	93.9	251	Sg	10:55:19.59	-1.34
PKB5	95.3	179	Sg	10:55:19.97	-1.40
PKS9	101.6	199	Sg	10:55:22.25	-1.13

263.

2019-03-26 time: 10:40:53.77 UTC ML= 0.7
lat: 47.203N lon: 18.276E h= 0.0 km
erh= 0.6km erz= 169km
nr= 6 gap=143 rms=0.10
Locality: Csór
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	19.4	289	Pg	10:40:57.19	-0.04
			Sg	40:59.93	0.01
PKSG	22.7	22	Pg	10:40:57.73	-0.10
			Sg	41:01.20	0.20
MORH	113.2	166	Sg	10:41:29.91	0.15
PKSM	113.6	166	Sg	10:41:29.84	-0.04

264.

2019-03-26 time: 11:23:08.39 UTC ML= 1.4
lat: 47.326N lon: 18.459E h= 0.0 km
erh= 3.0km erz= 866km
nr= 6 gap=115 rms=0.50
Locality: Pátka
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	8.9	324	PgU	11:23:09.95	-0.03
			Sg	23:10.65	-0.57

Hypocenter Parameters

PKST 33.0 257 Pg 11:23:15.07 0.79
Sg 23:18.41 -0.47
PKSM 124.7 174 Sg 11:23:47.53 -0.49
PSZ 126.4 59 Sg 11:23:48.61 0.05

265.

2019-03-27 time: 2:56:23.94 UTC ML= 0.6
lat: 46.301N lon: 18.419E h= 0.6 km
erh= 0.7km erz=37.8km
nr= 10 gap=115 rms=0.15
Locality: Györe
Comments:

sta	dist	azm	phase	hr mn sec	res
MORH	19.8	119	Pg	2:56:27.53	0.05
			Sg	56:30.17	-0.07
PKSM	19.8	120	Pg	2:56:27.46	-0.02
			Sg	56:30.17	-0.08
PKB4	25.9	33	Sg	2:56:32.16	-0.02
PKS9	33.5	341	Pg	2:56:30.02	0.09
KOVH	34.2	226	Pg	2:56:30.17	0.12
			Sg	56:34.35	-0.46
PKB5	40.7	37	Pg	2:56:31.32	0.11
			Sg	56:36.43	-0.46

266.

2019-03-27 time: 9:12:42.21 UTC ML= 1.5
lat: 47.512N lon: 18.368E h= 0.0 km
erh= 4.0km erz= 684km
nr= 5 gap=174 rms=0.33
Locality: Vértessomló
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	13.4	173	Pg	9:12:44.04	-0.57
			Sg	12:46.89	0.40
PKST	37.7	222	Pg	9:12:49.14	0.19
			Sg	12:54.32	0.11
A338	56.0	359	Pg	9:12:52.28	0.07

267.

2019-03-27 time: 9:27:04.32 UTC ML= 1.3
lat: 47.798N lon: 19.909E h= 0.0 km
erh= ---km erz= ---km
nr= 4 gap=274 rms=0.32
Locality: Gyöngyös
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	13.4	355	PgU	9:27:06.89	0.18
			Sg	27:08.08	-0.50
PENC	47.0	269	Sg	9:27:19.01	-0.26
A336	83.4	305	Sg	9:27:31.20	0.38

268.

2019-03-27 time: 10:06:16.85 UTC ML= 1.5
lat: 48.615N lon: 20.729E h= 0.0 km
erh= 1.6km erz= 4.7km
nr= 12 gap= 85 rms=0.58
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.2	231	Pg	10:06:21.28	0.28
			Sg	06:23.76	-0.47
ABAH	51.8	133	Pg	10:06:26.58	0.47

Hypocenter Parameters

			Sg	06:32.93	-0.39
STHS	96.8	23	ePg	10:06:34.30	0.17
			eSg	06:46.60	-1.00
PSZ	99.2	219	Pg	10:06:35.19	0.62
			Sg	06:47.47	-0.92
LANS	110.0	303	ePg	10:06:36.90	0.40
			eSg	06:51.40	-0.42
KOLS	118.9	73	eSg	10:06:54.10	-0.54
A336	134.9	252	Sn	10:06:57.64	-1.68

269.

2019-03-27 time: 11:31:38.51 UTC ML= 1.3
lat: 45.732N lon: 17.279E h= 11.7 km
erh= 2.4km erz= 1.7km
nr= 9 gap=203 rms=0.32
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	75.0	58	Pg	11:31:52.22	0.16
			Sg	32:03.20	0.57
PKSV	77.6	77	Pg	11:31:52.39	-0.14
			Sg	32:02.09	-1.37
PTJ	104.3	280	S*	11:32:11.28	-0.20
PKSM	118.3	63	Pn	11:31:58.96	0.17
			Sn	32:14.19	-0.42
MORH	118.7	63	Pn	11:31:59.00	0.16

270.

2019-03-27 time: 18:10:28.83 UTC ML= 1.7
lat: 46.151N lon: 16.372E h= 6.6 km
erh= 2.3km erz=17.4km
nr= 13 gap=142 rms=0.67
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
KOGS	34.3	344	Pg	18:10:35.78	0.71
			Sg	10:39.65	-0.29
PTJ	42.5	229	Pg	18:10:35.37	-1.15
			Sg	10:42.27	-0.24
ZAG	46.3	219	Sg	18:10:43.78	0.09
BEHE	47.1	41	Pg	18:10:37.42	0.09
			Sg	10:44.01	0.05
GOLS	59.9	255	iPg	18:10:40.80	1.21
GCIS	65.8	241	iPg	18:10:40.93	0.30
GROS	75.4	297	Pg	18:10:42.20	-0.14
			Sg	10:51.94	-0.94

271.

2019-03-28 time: 9:36:58.51 UTC ML= 1.2
lat: 47.336N lon: 18.474E h= 0.0 km
erh= 1.7km erz= 538km
nr= 7 gap=115 rms=0.35
Locality: Lovasberény
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	8.8	315	Pg	9:37:00.10	0.02
			Sg	37:00.61	-0.71
PKST	34.3	256	Pg	9:37:05.14	0.50
			Sg	37:09.36	-0.06
PSZ	124.9	59	Sg	9:37:38.35	0.15
MORH	125.2	174	Sg	9:37:38.01	-0.29
PKSM	125.6	174	Sg	9:37:38.18	-0.25

Földrengés paraméterek

272.

2019-03-29 time: 10:36:12.37 UTC ML= 1.6
lat: 47.847N lon: 19.116E h= 0.0 km
erh= 0.9km erz= 284km
nr= 9 gap=110 rms=0.21
Locality: Szendehegy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	13.9	117	Pg	10:36:15.10	0.24
			Sg	36:16.96	0.17
A336	43.8	349	Pg	10:36:20.38	0.19
			Sg	36:26.25	-0.04
PSZ	58.8	82	Pg	10:36:22.79	-0.08
			Sg	36:30.97	-0.08
A338	60.0	288	Sg	10:36:31.67	0.22
PKSG	74.4	227	Pg	10:36:25.45	-0.21
KECS	124.0	55	ePg	10:36:34.10	-0.42
			eSg	36:49.20	-2.59*

273.

2019-03-30 time: 10:06:36.01 UTC ML= 1.0
lat: 46.153N lon: 18.304E h= 0.0 km
erh= 0.7km erz= 233km
nr= 10 gap=112 rms=0.18
Locality: Vasas
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	17.4	245	PgU	10:06:38.85	-0.26
			Sg	06:41.72	0.19
PKSM	26.8	76	Pg	10:06:40.67	-0.13
			Sg	06:44.38	-0.15
MORH	27.2	75	Pg	10:06:40.87	0.01
			Sg	06:44.74	0.10
PKSV	29.7	188	Pg	10:06:41.47	0.16
			Sg	06:45.59	0.15
PKS9	48.3	358	Sg	10:06:51.31	-0.04
PKB1	79.5	28	Sg	10:07:02.26	0.97

274.

2019-03-31 time: 10:10:30.31 UTC ML= 0.4
lat: 47.330N lon: 18.279E h= 4.1 km
erh= 3.8km erz= 4.5km
nr= 5 gap=196 rms=0.08
Locality: Söréd
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	4.0	339	Pg	10:10:31.45	0.12
			Sg	10:32.05	-0.08
PKSG	10.9	51	Pg	10:10:32.35	-0.04
			Sg	10:33.96	-0.05
PKST	20.1	247	Sg	10:10:36.83	-0.01

275.

2019-04-01 time: 0:34:24.25 UTC ML= 0.1
lat: 45.948N lon: 18.544E h= 0.4 km
erh= 2.0km erz= 125km
nr= 8 gap=239 rms=0.24
Locality: Bóly
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	23.6	254	Pg	0:34:28.21	-0.25
			Sg	34:31.78	0.03
PKSM	30.3	14	Pg	0:34:29.69	0.04
			Sg	34:33.91	0.04

Földrengés paraméterek

MORH 30.7 15 Pg 0:34:29.77 0.03
Sg 34:33.81 -0.21
KOVH 37.8 294 Pg 0:34:31.48 0.49
Sg 34:35.92 -0.33

276.

2019-04-02 time: 7:55:38.92 UTC ML= 1.4
lat: 48.578N lon: 20.777E h= 0.0 km
erh= 4.1km erz= 819km
nr= 6 gap=186 rms=0.48
Locality: Tornanádaska
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	23.9	244	Pg	7:55:43.41			0.22
			Sg	55:45.67			-0.86
ABAH	46.4	132	Pg	7:55:46.85			-0.35
			Sg	55:53.85			0.18
PSZ	98.3	222	Sg	7:56:11.12			0.95
KOLS	116.9	70	Sg	7:56:16.15			0.07

277.

2019-04-02 time: 9:11:19.88 UTC ML= 0.6
lat: 47.229N lon: 18.244E h= 0.0 km
erh= 0.9km erz= 175km
nr= 6 gap=198 rms=0.11
Locality: Iszkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	15.0	5	Pg	9:11:22.64			0.09
			Sg	11:24.49			-0.14
PKST	16.2	282	Sg	9:11:24.97			-0.06
PKSG	21.2	32	Pg	9:11:23.70			0.03
			Sg	11:26.75			0.12
NADP	28.5	84	Sg	9:11:28.74			-0.20

278.

2019-04-02 time: 10:31:24.53 UTC ML= 2.5
lat: 48.247N lon: 21.294E h= 0.0 km
erh= 3.4km erz= 3.6km
nr= 13 gap=104 rms=0.88
Locality: Erdőbénye
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
ABAH	6.8	324	Pg	10:31:25.91			0.16
			Sg	31:27.44			0.74
KECS	65.4	294	Pg	10:31:35.90			-0.31
			Sg	31:44.06			-1.26
KOLS	105.1	43	Pg	10:31:42.32			-0.98
PSZ	110.5	251	Pg	10:31:44.22			-0.04
			Sg	31:59.17			-0.48
STHS	130.2	358	ePg	10:31:50.10			2.33
LANS	167.9	307	Sn	10:32:14.44			0.14
A336	170.5	269	Sn	10:32:14.16			-0.73
VYHS	184.2	279	Sn	10:32:18.82			0.89
DRGR	193.8	147	Pn	10:31:57.14			1.41
			Sn	32:19.57			-0.49

Hypocenter Parameters

279.

2019-04-03 time: 8:40:25.53 UTC ML= 1.8
lat: 47.329N lon: 18.456E h= 0.0 km
erh= 2.5km erz= 4.2km
nr= 7 gap=161 rms=0.45
Locality: Pátka
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSG	8.5	324	Pg	8:40:27.29			0.23
			Sg	40:28.05			-0.19
CSKK	15.3	284	Pg	8:40:28.69			0.43
			Sg	40:29.94			-0.44
MORH	124.6	173	Sg	8:41:05.22			0.08
PKSM	125.0	174	Sg	8:41:05.07			-0.20
VYHS	132.6	12	Sn	8:41:05.90			-1.58

280.

2019-04-03 time: 9:30:30.64 UTC ML= 1.8
lat: 46.826N lon: 17.249E h= 0.0 km
erh= 2.6km erz= 758km
nr= 8 gap=167 rms=0.56
Locality: Rezi
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
MPLH	44.2	30	Pg	9:30:38.21			-0.31
			Sg	30:44.26			-0.41
BEHE	53.7	223	Pg	9:30:40.31			0.08
			Sg	30:46.94			-0.76
MORH	126.7	122	Pg	9:30:54.02			0.75
			Sg	31:11.03			0.11
PKSM	126.8	123	Pg	9:30:53.90			0.62
			Sg	31:09.81			-1.13

281.

2019-04-03 time: 10:23:24.13 UTC ML= 0.6
lat: 47.187N lon: 18.287E h= 0.0 km
erh= 0.7km erz= 170km
nr= 7 gap=147 rms=0.11
Locality: Sárkeszi
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	19.7	354	Pg	10:23:27.71			0.07
			Sg	23:30.12			-0.26
PKST	20.7	293	Pg	10:23:27.96			0.13
			Sg	23:30.62			-0.09
PKSG	24.1	19	Pg	10:23:28.41			-0.02
			Sg	23:31.82			0.04
MORH	111.4	166	Sg	10:23:59.39			-0.15

282.

2019-04-04 time: 8:48:03.17 UTC ML= 0.7
lat: 46.234N lon: 18.243E h= 0.0 km
erh= 1.8km erz= 229km
nr= 7 gap=239 rms=0.43
Locality: Komló
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KOVH	19.6	214	Pg	8:48:06.86			0.20
			Sg	48:09.62			0.23
PKSM	30.8	95	Pg	8:48:08.87			0.19
			Sg	48:12.48			-0.49
MORH	31.0	94	Pg	8:48:09.02			0.31
			Sg	48:12.58			-0.45

Hypocenter Parameters

PKSV 38.4 179 Sg 8:48:13.99 -1.38

283.

2019-04-04 time: 9:22:44.71 UTC ML= 1.3
lat: 48.572N lon: 20.749E h= 0.0 km
erh= 2.6km erz= 3.3km
nr= 10 gap=186 rms=0.51
Locality: Tornanádaska
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	21.8	243	Pg	9:22:49.30	0.69
			Sg	22:52.06	0.41
ABAH	47.5	130	Pg	9:22:53.41	0.22
			Sg	22:59.49	-0.32
PSZ	96.5	221	Pg	9:23:01.21	-0.73
			Sg	23:14.69	-0.70
LANS	113.9	304	ePg	9:23:05.20	0.14
			eSg	23:20.20	-0.73
VYHS	141.6	266	Pn	9:23:09.81	0.41
			Sn	23:28.23	-0.42

284.

2019-04-05 time: 6:08:12.02 UTC ML= 1.0
lat: 47.156N lon: 18.190E h= 0.0 km
erh= 1.6km erz= 177km
nr= 5 gap=284 rms=0.09
Locality: Ősi
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	16.4	314	PgU	6:08:14.98	0.02
			Sg	08:17.19	-0.05
CSKK	23.7	13	Pg	6:08:16.24	-0.01
			Sg	08:19.40	-0.15
PKSG	30.3	30	Sg	6:08:21.86	0.20

285.

2019-04-05 time: 8:12:45.48 UTC ML= 1.8
lat: 47.884N lon: 19.432E h= 0.0 km
erh= 6.8km erz=12.6km
nr= 11 gap=143 rms=1.93
Locality: Bercel
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	15.3	227	Pg	8:12:47.86	-0.36
			Sg	12:49.23	-1.12
PSZ	34.8	84	Pg	8:12:51.50	-0.20
			Sg	12:56.82	0.28
A336	50.4	320	Pg	8:12:59.51	5.02
VYHS	81.0	327	Sg	8:13:07.44	-3.78
A338	81.9	280	Sg	8:13:10.44	-1.08
PKSG	95.5	235	Sg	8:13:16.03	0.20
KECS	102.8	50	Sg	8:13:17.91	-0.26
PKST	126.1	237	Sg	8:13:25.11	-0.44
MODS	169.4	289	eSn	8:13:35.50	-0.09

286.

2019-04-05 time: 9:39:50.64 UTC ML= 1.5
lat: 48.489N lon: 18.714E h= 0.0 km
erh= 2.0km erz= 466km
nr= 8 gap=183 rms=0.34
Locality: Slovakia
Comments: probably explosion

Földrengés paraméterek

sta	dist	azm	phase	hr mn sec	res
VYHS	9.0	86	PgU	9:39:52.12	-0.13
			Sg	39:53.51	0.00
A336	35.4	143	Pg	9:39:57.30	0.33
			Sg	40:02.45	0.55
PENC	88.4	151	Sg	9:40:18.12	-0.62
MODS	107.1	263	ePg	9:40:09.70	-0.07
			eSg	40:25.40	0.71
PSZ	108.3	126	Pg	9:40:09.70	-0.28

287.

2019-04-05 time: 13:52:31.90 UTC ML= 2.4
lat: 46.317N lon: 17.303E h= 10.0 km
erh= 1.4km erz= 1.0km
nr= 49 gap= 63 rms=0.77
Locality: Somogyszob
Comments:

sta	dist	azm	phase	hr mn sec	res
BEHE	44.0	293	Sg	13:52:46.57	0.31
KOVH	66.5	112	Pg	13:52:43.80	-0.11
			Sg	52:51.90	-1.38
TIH	79.0	35	Pg	13:52:45.26	-0.86
			Sg	52:56.78	-0.44
PKS9	80.7	68	Pg	13:52:46.97	0.54
KOGS	82.3	280	Pg	13:52:46.74	0.03
			Sg	52:56.35	-1.91
PKSV	87.4	123	Pg	13:52:47.93	0.31
			Sg	53:00.36	0.48
MPLH	96.6	11	Pg	13:52:48.96	-0.28
			Sg	53:02.08	-0.68
PKB4	102.0	79	Sg	13:53:03.85	-0.62
PKSM	103.8	96	P*	13:52:49.47	-1.03
			S*	53:03.59	-1.42
MORH	104.0	96	P*	13:52:49.52	-1.01
			S*	53:03.52	-1.54
PTJ	113.9	246	Pn	13:52:51.47	-0.38
			Sn	53:05.51	-1.91
PKB5	114.3	74	Pn	13:52:52.50	0.59
			Sn	53:06.98	-0.53
PKST	118.7	28	Pn	13:52:52.18	-0.28
			Sn	53:07.44	-1.05
EGYH	122.4	1	Pn	13:52:53.60	0.69
			Sn	53:09.10	-0.20
PKB1	125.5	66	Pn	13:52:53.50	0.20
			Sn	53:09.63	-0.36
GOLS	134.1	255	ePn	13:52:55.01	0.64
GCIS	138.9	249	iPn	13:52:55.53	0.55
GROS	139.5	277	Pn	13:52:55.92	0.87
NADP	145.0	44	Sn	13:53:15.10	0.78
PKSG	145.5	35	Pn	13:52:57.23	1.44
PKB3	146.0	85	Sn	13:53:15.86	1.31
PKB2	154.0	75	Sn	13:53:18.18	1.85
RONA	171.8	334	Pn	13:52:59.69	0.62
			Sn	53:19.24	-1.03
BLY	174.5	183	Sn	13:53:22.66	1.79
SOKA	178.9	283	Pn	13:53:00.15	0.19
			Sn	53:18.63	-3.22*
OBKA	212.9	276	Pn	13:53:05.50	1.30
			Sn	53:29.87	0.48

288.

2019-04-08 time: 4:54:28.56 UTC ML= 1.8
lat: 48.951N lon: 18.372E h= 10.0 km
erh= 2.6km erz= 2.6km
nr= 25 gap= 79 rms=1.01
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr mn sec	res
VYHS	61.3	146	Pg	4:54:39.20	-0.45

Földrengés paraméterek

			Sg	54:46.51	-1.78
LANS	83.1	75	Pg	4:54:42.33	-1.18
			Sg	54:52.84	-2.33
SMOL	84.8	235	ePg	4:54:45.20	1.40
			eSg	54:56.60	0.92
OKC	99.9	351	ePg	4:54:46.60	0.12
			eSg	54:58.90	-1.56
MODS	103.1	231	eP*	4:54:47.10	0.05
			eS*	55:00.90	-0.58
A338	104.1	181	P*	4:54:47.03	-0.18
MORC	109.8	327	Pn	4:54:47.65	-0.35
			Sn	55:01.22	-1.95
VRAC	135.7	287	Pn	4:54:51.63	0.39
			Sn	55:08.35	-0.57
KRUC	145.1	275	Pn	4:54:52.24	-0.17
			Sn	55:09.61	-1.41
PENC	145.6	152	Pn	4:54:53.04	0.57
			Sn	55:10.59	-0.54
NIE	150.8	70	Pn	4:54:54.07	0.96
PSZ	160.9	136	Pn	4:54:55.41	1.03
KECS	164.0	109	ePn	4:54:56.50	1.73
			eSn	55:15.00	-0.21
KRLC	170.0	317	ePn	4:54:57.30	1.80
			eSn	55:16.10	-0.42

289.

2019-04-08 time: 8:05:43.61 UTC ML= 1.4
lat: 48.603N lon: 20.751E h= 0.0 km
erh= 1.4km erz= 2.5km
nr= 11 gap=129 rms=0.37
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.7	236	Pg	8:05:48.21	0.37
			Sg	05:50.59	-0.55
ABAH	49.7	133	Pg	8:05:52.63	0.14
			Sg	05:59.05	-0.36
PSZ	99.2	220	Pg	8:06:01.66	0.33
			Sg	06:14.79	-0.35
LANS	112.1	303	Pg	8:06:03.85	0.22
			Sg	06:18.89	-0.35
KOLS	117.8	72	Sg	8:06:20.49	-0.55
VYHS	141.9	265	Pn	8:06:08.59	0.25
			Sn	06:26.82	-0.81

290.

2019-04-08 time: 9:12:22.34 UTC ML= 1.3
lat: 47.574N lon: 18.504E h= 0.0 km
erh= 1.5km erz= 143km
nr= 7 gap=189 rms=0.10
Locality: Tarján
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	22.0	203	Pg	9:12:26.24	-0.03
			Sg	12:29.61	0.27
CSKK	29.8	218	Pg	9:12:27.66	0.00
			Sg	12:31.61	-0.21
PKST	49.9	225	Sg	9:12:38.24	0.05
VYHS	105.2	14	Pg	9:12:41.12	-0.01
			Sg	12:55.85	0.06

Hypocenter Parameters

291.

2019-04-09 time: 6:03:45.66 UTC ML= 1.1
lat: 47.307N lon: 18.305E h= 0.0 km
erh= 2.2km erz= 820km
nr= 10 gap= 87 rms=0.64
Locality: Söréd
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	7.1	332	Pg	6:03:46.94	0.01
			Sg	03:47.71	-0.20
PKSG	11.5	35	Pg	6:03:47.55	-0.16
			Sg	03:48.72	-0.58
PKST	21.1	255	Pg	6:03:49.61	0.17
			Sg	03:53.15	0.77
NADP	24.3	103	Sg	6:03:55.20	1.81
MORH	124.0	168	Sg	6:04:24.53	-0.56
PKSM	124.4	168	Pg	6:04:07.81	-0.07
			Sg	04:22.78	-2.43

292.

2019-04-09 time: 8:37:33.23 UTC ML= 1.1
lat: 48.422N lon: 18.997E h= 0.0 km
erh= 6.7km erz= ***km
nr= 6 gap=157 rms=0.97
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	14.3	304	Pg	8:37:35.18	-0.61
			Sg	37:38.88	1.09
A336	21.0	180	Pg	8:37:36.16	-0.83
			Sg	37:41.29	1.37
LANS	88.1	23	Pg	8:37:49.86	0.90
			Sg	37:59.87	-1.35

293.

2019-04-09 time: 9:13:17.01 UTC ML= 1.3
lat: 48.361N lon: 18.514E h= 0.0 km
erh= 1.6km erz= 552km
nr= 11 gap=147 rms=0.45
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	28.1	58	Pg	9:13:21.81	-0.21
			Sg	13:25.73	-0.20
A336	38.7	112	Sg	9:13:29.85	0.54
A338	40.3	197	Pg	9:13:24.61	0.40
			Sg	13:30.65	0.83
PENC	85.4	138	Sg	9:13:43.96	-0.21
MODS	91.6	271	ePg	9:13:33.70	0.33
			eSg	13:45.10	-1.04
CSKK	112.6	190	Sg	9:13:51.84	-0.95
PSZ	114.0	116	Pg	9:13:37.17	-0.19
			Sg	13:52.95	-0.28

294.

2019-04-09 time: 9:25:10.79 UTC ML= 1.4
lat: 47.890N lon: 19.181E h= 0.0 km
erh= 4.0km erz= 812km
nr= 7 gap=193 rms=0.65
Locality: Felsőpetény
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	13.4	146	Pg	9:25:12.74	-0.44

Hypocenter Parameters

			Sg	25:13.59	-1.46
A336	40.5	340	Pg	9:25:18.61	0.60
			Sg	25:23.96	0.31
PSZ	53.5	87	Pg	9:25:20.89	0.56
			Sg	25:27.93	0.15
VYHS	71.9	339	Sg	9:25:32.82	-0.81

295.

2019-04-09 time: 9:42:15.14 UTC ML= 1.8
lat: 47.359N lon: 18.409E h= 0.0 km
erh= 3.8km erz= ***km
nr= 7 gap=129 rms=0.68
Locality: Gánt
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	3.9	339	Pg	9:42:16.47	0.63
CSKK	11.3	272	Pg	9:42:17.78	0.63
NADP	19.4	126	Pg	9:42:18.48	-0.12
			Sg	42:20.90	-0.40
PKST	30.5	249	Pg	9:42:20.69	0.11
			Sg	42:23.85	-0.98
A338	73.1	357	Sg	9:42:36.43	-1.94

296.

2019-04-10 time: 8:56:10.54 UTC ML= 1.2
lat: 46.199N lon: 18.275E h= 0.0 km
erh= 1.5km erz= 244km
nr= 8 gap=219 rms=0.18
Locality: Komló
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	18.3	228	Pg	8:56:13.93	0.12
			Sg	56:16.55	0.19
PKSM	28.3	87	Pg	8:56:15.55	-0.03
			Sg	56:19.74	0.22
MORH	28.5	86	Pg	8:56:15.39	-0.24
			Sg	56:19.93	0.33
PKSV	34.6	183	Pg	8:56:16.61	-0.10
			Sg	56:21.33	-0.20

297.

2019-04-10 time: 9:27:54.10 UTC ML= 1.5
lat: 47.334N lon: 18.422E h= 0.0 km
erh= 1.5km erz= 3.3km
nr= 11 gap= 82 rms=0.50
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	6.8	340	Pg	9:27:55.57	0.25
			Sg	27:56.16	-0.11
CSKK	12.6	285	Pg	9:27:56.71	0.36
			Sg	27:57.91	-0.20
NADP	17.1	120	Sg	9:28:01.48	1.94
PKST	30.5	254	Pg	9:27:59.90	0.35
			Sg	28:03.64	-0.15
MORH	125.5	172	Sg	9:28:33.47	-0.52
PKSM	125.9	172	Sg	9:28:33.62	-0.50
PSZ	128.3	60	Sg	9:28:34.32	-0.58
VYHS	132.6	14	Sn	9:28:35.17	-0.89

Földrengés paraméterek

298.

2019-04-10 time: 11:03:03.48 UTC ML= 1.4
lat: 48.651N lon: 20.730E h= 0.0 km
erh= 3.6km erz= 6.9km
nr= 8 gap=195 rms=0.62
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	26.0	224	Pg	11:03:08.62	0.50
			Sg	03:11.26	-0.47
ABAH	54.6	136	Pg	11:03:13.79	0.56
			Sg	03:19.72	-1.12
PSZ	102.4	217	Pg	11:03:21.78	0.01
			Sg	03:35.39	-0.64
LANS	107.9	301	ePg	11:03:22.00	-0.75
			eSg	03:33.80	-3.98*
VYHS	140.8	263	Pn	11:03:28.81	0.73

299.

2019-04-10 time: 11:09:55.64 UTC ML= 1.4
lat: 48.417N lon: 20.765E h= 0.0 km
erh= 2.7km erz= 469km
nr= 5 gap=181 rms=0.21
Locality: Galvács
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	22.0	290	Pg	11:09:59.49	-0.07
ABAH	37.6	111	Pg	11:10:02.38	0.02
			Sg	10:07.33	-0.27
PSZ	85.3	229	Pg	11:10:11.20	0.33
			Sg	10:22.47	-0.27

300.

2019-04-11 time: 4:10:03.22 UTC ML= 1.3
lat: 46.842N lon: 18.893E h= 8.0 km
erh= 1.6km erz= 1.9km
nr= 22 gap= 89 rms=0.65
Locality: Dunaegyháza
Comments:

sta	dist	azm	phase	hr mn sec	res
PKB1	10.1	230	PgD	4:10:06.24	0.72
			Sg	10:06.90	-0.41
PKB5	30.0	204	Pg	4:10:09.38	0.61
			Sg	10:12.72	-0.38
PKS7	30.5	42	PgD	4:10:08.61	-0.25
			Sg	10:12.33	-0.93
PKB2	32.5	125	Pg	4:10:09.24	0.04
			Sg	10:13.33	-0.54
NADP	50.7	336	Sg	4:10:18.84	-0.69
PKB3	52.0	154	Pg	4:10:12.74	0.13
PKS9	54.9	239	Pg	4:10:14.02	0.89
			Sg	10:20.41	-0.45
PKSG	72.0	328	Sg	4:10:25.46	-0.79
MORH	72.2	195	Pg	4:10:16.60	0.40
			Sg	10:24.73	-1.59
PKSM	72.7	195	Pg	4:10:16.36	0.07
			Sg	10:25.02	-1.46
KOVH	103.7	216	Pg	4:10:22.26	0.48
			Sg	10:34.87	-1.40
PKSV	117.0	205	Pn	4:10:24.30	0.48
			Sn	10:39.13	-0.75
PSZ	141.5	32	Pn	4:10:27.54	0.66

Földrengés paraméterek

301.

2019-04-11 time: 7:08:49.38 UTC ML= 1.5
lat: 48.591N lon: 20.781E h= 0.0 km
erh= 4.0km erz= 4.0km
nr= 7 gap=241 rms=0.52
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.9	241	Pg	7:08:53.97	0.14
			Sg	08:57.24	-0.06
ABAH	47.2	134	Pg	7:08:58.09	0.29
			Sg	09:03.23	-1.14
PSZ	99.7	221	Pg	7:09:07.48	0.30
			Sg	09:21.28	0.22
A336	137.8	253	Sn	7:09:31.02	-1.47

302.

2019-04-11 time: 8:50:50.13 UTC ML= 1.5
lat: 47.212N lon: 18.286E h= 0.0 km
erh= 1.6km erz= 4.6km
nr= 12 gap= 88 rms=0.61
Locality: Iszkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	16.9	353	Pg	8:50:53.00	-0.15
			Sg	50:55.06	-0.44
PKST	19.8	285	Pg	8:50:53.58	-0.08
			Sg	50:56.49	0.08
PKSG	21.5	22	Sg	8:50:57.20	0.24
NADP	25.6	79	Pg	8:50:55.44	0.74
			Sg	50:59.05	0.78
MPLH	56.8	265	Pg	8:51:00.86	0.59
PKSM	114.5	166	Sg	8:51:25.24	-1.27
A336	125.5	25	Sg	8:51:29.35	-0.67
KOVH	125.7	187	Sg	8:51:29.56	-0.53
PSZ	144.3	57	Sn	8:51:33.22	-1.45

303.

2019-04-11 time: 9:35:19.66 UTC ML= 0.8
lat: 47.202N lon: 18.307E h= 0.0 km
erh= 1.4km erz= 395km
nr= 8 gap=150 rms=0.28
Locality: Székesfehérvár
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	18.3	349	Pg	9:35:23.01	0.09
			Sg	35:25.17	-0.30
PKST	21.6	287	Pg	9:35:23.61	0.09
			Sg	35:26.37	-0.15
PKSG	22.0	17	Pg	9:35:23.94	0.34
			Sg	35:26.30	-0.37
MORH	112.6	167	Sg	9:35:55.67	0.21
PKSM	113.0	167	Sg	9:35:54.92	-0.66

304.

2019-04-11 time: 11:52:35.05 UTC ML= 0.9
lat: 46.126N lon: 18.093E h= 0.0 km
erh= 1.0km erz= 231km
nr= 9 gap=203 rms=0.17
Locality: Abaliget
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	4.2	172	Pg	11:52:35.76	-0.04

Hypocenter Parameters

			Sg	52:36.59	0.21
PKSV	29.1	155	Pg	11:52:39.89	-0.36
			Sg	52:44.43	0.13
PKSM	43.5	77	Pg	11:52:42.89	0.08
			Sg	52:48.55	-0.31
MORH	43.8	77	Pg	11:52:42.93	0.07
			Sg	52:49.05	0.09
PKS9	53.3	16	Pg	11:52:44.67	0.11

305.

2019-04-12 time: 6:20:07.65 UTC ML= 0.7
lat: 47.230N lon: 18.214E h= 0.0 km
erh= 2.6km erz= 317km
nr= 6 gap=247 rms=0.19
Locality: Bakonykúti
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	14.0	283	Pg	6:20:09.98	-0.17
			Sg	20:12.11	0.01
CSKK	15.2	13	Pg	6:20:10.71	0.34
			Sg	20:12.29	-0.19
PKSG	22.4	37	Pg	6:20:11.64	-0.01
			Sg	20:14.70	-0.07

306.

2019-04-12 time: 8:07:35.66 UTC ML= 2.0
lat: 47.332N lon: 18.410E h= 0.0 km
erh= 2.2km erz= 781km
nr= 10 gap=132 rms=0.61
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	6.8	347	Pg	8:07:36.84	-0.05
			Sg	07:36.94	-0.90
CSKK	11.9	287	Pg	8:07:38.12	0.34
PKST	29.6	254	Pg	8:07:41.65	0.70
			Sg	07:45.31	0.24
PKS7	65.1	119	Pg	8:07:47.71	0.43
			Sg	07:56.45	0.10
MPLH	68.3	255	Sg	8:07:55.94	-1.45
MORH	125.3	172	Sg	8:08:14.89	-0.61
PKSM	125.7	172	Sg	8:08:14.68	-0.95

307.

2019-04-12 time: 9:43:14.80 UTC ML= 1.1
lat: 46.029N lon: 18.120E h= 0.0 km
erh= 1.7km erz= 411km
nr= 8 gap=200 rms=0.29
Locality: Pellérd
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	6.8	347	Pg	9:43:15.87	-0.14
			Sg	43:16.97	0.01
PKSV	18.7	147	Sg	9:43:20.29	-0.44
PKSM	45.1	63	Pg	9:43:23.20	0.34
			Sg	43:29.12	-0.03
MORH	45.5	63	Pg	9:43:23.20	0.27
			Sg	43:29.28	0.01
PKB5	78.8	37	Sg	9:43:39.18	-0.67

Hypocenter Parameters

308.

2019-04-12 time: 10:00:41.76 UTC ML= 1.4
lat: 48.155N lon: 16.914E h= 0.0 km
erh= 3.1km erz= 3.8km
nr= 9 gap=151 rms=0.66
Locality: Austria
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CONA	82.4	252	Pg	10:00:56.85	0.37
			Sg	01:07.90	-0.06
KRUC	107.9	339	Pg	10:01:01.67	0.64
			Sg	01:15.63	-0.42
VRAC	130.4	350	Pg	10:01:05.04	-0.01
			Sg	01:21.10	-2.12
ARSA	144.9	226	Sn	10:01:25.42	-1.03
VYHS	147.4	75	Pn	10:01:07.75	0.57
			Sn	01:26.33	-0.68

309.

2019-04-12 time: 10:18:25.21 UTC ML= 1.9
lat: 48.266N lon: 21.208E h= 0.0 km
erh= 2.5km erz= 437km
nr= 7 gap=202 rms=0.29
Locality: Abaújszántó
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	4.1	34	Pg	10:18:25.89	-0.04
			Sg	18:27.10	0.60
KECS	58.8	294	Sg	10:18:43.72	-0.16
PSZ	105.2	248	Pg	10:18:43.87	-0.13
			Sg	18:58.73	0.07
KOLS	108.0	47	Pg	10:18:44.72	0.22
			Sg	18:58.83	-0.72

310.

2019-04-12 time: 10:31:58.66 UTC ML= 1.3
lat: 46.117N lon: 18.063E h= 0.0 km
erh= 1.9km erz= 380km
nr= 10 gap=228 rms=0.30
Locality: Bükkösd
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	4.2	138	Pg	10:31:59.40	-0.02
			Sg	32:00.66	0.66
PKSV	29.3	150	Pg	10:32:03.82	-0.07
			Sg	32:08.09	0.12
PKSM	45.9	77	Pg	10:32:06.58	-0.27
			Sg	32:13.11	-0.13
MORH	46.2	76	Pg	10:32:06.88	-0.03
			Sg	32:13.01	-0.33
PKS9	54.8	18	Sg	10:32:16.37	0.28
PKB5	74.2	44	Sg	10:32:24.35	2.11

311.

2019-04-13 time: 4:04:02.27 UTC ML= 1.5
lat: 48.785N lon: 19.863E h= 10.0 km
erh= 2.7km erz= 3.0km
nr= 15 gap= 93 rms=0.96
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr mn sec	res
LANs	49.9	325	Sg	4:04:18.14	-0.30
KECS	56.9	126	Pg	4:04:13.36	0.78

Földrengés paraméterek

			Sg	04:19.89	-0.73
NIE	77.8	25	Pg	4:04:16.74	0.47
			Sg	04:25.12	-2.07
VYHS	82.3	247	Pg	4:04:17.50	0.42
			Sg	04:26.72	-1.91
A336	88.6	226	Pg	4:04:18.79	0.60
			Sg	04:29.10	-1.50
PSZ	96.4	179	Pg	4:04:20.35	0.77
			Sg	04:31.89	-1.19
ABAH	115.3	118	Pn	4:04:22.76	0.36
			Sn	04:37.22	-0.88
PENC	118.7	201	Sn	4:04:38.09	-0.77
OJC	159.6	358	Sn	4:04:49.84	1.90

312.

2019-04-15 time: 3:42:28.22 UTC ML= 2.1
lat: 48.992N lon: 18.442E h= 5.7 km
erh= 2.2km erz= 2.3km
nr= 23 gap=108 rms=0.86
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr mn sec	res
VYHS	62.5	152	Pg	3:42:39.92	0.49
			Sg	42:46.87	-1.29
LANs	77.0	77	Pg	3:42:40.51	-1.51
SMOL	91.5	235	eSg	3:42:56.80	-0.56
A337	96.0	210	Pg	3:42:45.82	0.42
A338	108.8	183	Pg	3:42:47.73	0.06
MORC	109.1	323	Pg	3:42:48.45	0.73
			Sg	43:03.00	0.06
MODS	109.9	231	ePg	3:42:47.70	-0.17
			eSg	43:01.40	-1.80
SRO	131.4	184	ePn	3:42:51.90	0.99
			eSn	43:08.10	-0.51
VRAC	139.4	285	Pn	3:42:52.15	0.24
NIE	144.4	71	Pn	3:42:52.87	0.33
			Sn	43:10.43	-1.08
PENC	147.3	155	Sn	3:43:11.63	-0.52
KRUC	149.9	273	Pn	3:42:53.01	-0.21
			Sn	43:10.14	-2.58
KECS	160.6	111	ePn	3:42:55.90	1.34
			eSn	43:15.80	0.70
RONA	214.3	228	Pn	3:43:02.71	1.45
CONA	224.5	238	Pn	3:43:03.76	1.24
			Sn	43:27.59	-1.69

313.

2019-04-15 time: 8:37:25.32 UTC ML= 1.5
lat: 48.567N lon: 20.747E h= 0.0 km
erh= 2.6km erz= 3.9km
nr= 10 gap= 92 rms=0.73
Locality: Komjáti
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	21.4	244	Pg	8:37:29.26	0.11
			Sg	37:31.79	-0.34
ABAH	47.2	130	Pg	8:37:34.46	0.71
			Sg	37:39.83	-0.50
PSZ	96.0	221	Pg	8:37:43.17	0.72
			Sg	37:55.32	-0.50
NIE	100.0	341	Pg	8:37:43.93	0.76
KOLS	119.4	70	Sg	8:38:01.54	-1.72
VYHS	141.4	267	Pn	8:37:49.59	-0.39
			Sn	38:07.88	-1.34

Földrengés paraméterek

314.

2019-04-15 time: 8:42:17.50 UTC ML= 1.4
lat: 47.362N lon: 18.395E h= 0.0 km
erh= 0.8km erz= 232km
nr= 8 gap=123 rms=0.17
Locality: Gánt
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	3.3	355	Pg	8:42:18.07	-0.03
			Sg	42:18.45	-0.11
CSKK	10.1	271	Pg	8:42:19.38	0.07
			Sg	42:20.98	0.25
NADP	20.5	125	Sg	8:42:23.92	-0.09
PKST	29.6	247	Pg	8:42:22.89	0.11
			Sg	42:26.46	-0.44
VYHS	130.1	15	ePg	8:42:40.80	0.06
			eSg	42:57.20	-1.66*

315.

2019-04-15 time: 10:10:31.12 UTC ML= 1.2
lat: 47.187N lon: 18.312E h= 0.0 km
erh= 2.2km erz= 280km
nr= 6 gap=254 rms=0.17
Locality: Székesfehérvár
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	20.0	349	Pg	10:10:34.51	-0.18
			Sg	10:37.44	-0.04
PKST	22.5	291	Pg	10:10:35.03	-0.12
			Sg	10:38.27	-0.02
PKSG	23.5	15	Sg	10:10:38.87	0.26
MPLH	58.6	268	Pg	10:10:41.80	0.21

316.

2019-04-15 time: 22:14:40.54 UTC ML= 2.2
lat: 45.586N lon: 18.514E h= 7.4 km
erh= 1.4km erz= 1.0km
nr= 22 gap=112 rms=0.36
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	39.3	329	Pg	22:14:47.92	0.23
			Sg	14:52.97	-0.29
KOVH	64.4	330	PgD	22:14:52.16	0.03
			Sg	14:59.78	-1.38
PKSM	70.3	8	PgD	22:14:53.54	0.38
			Sg	15:02.19	-0.81
MORH	70.7	8	PgD	22:14:53.60	0.36
			Sg	15:02.48	-0.67
PKS9	112.7	351	Pn	22:15:00.63	-0.06
			Sn	15:16.66	0.26
FRGS	113.2	116	Pn	22:15:00.81	0.06
			Sn	15:15.87	-0.64
PKB5	113.5	9	PnD	22:15:00.61	-0.17
			Sn	15:16.09	-0.47
PKS2	114.3	28	PnD	22:15:01.26	0.37
PKB1	134.9	9	Pn	22:15:03.37	-0.09
			Sn	15:22.44	1.11
BLY	140.0	228	Pn	22:15:04.26	0.18
TIH	153.7	342	Pn	22:15:05.73	-0.07

Hypocenter Parameters

317.

2019-04-16 time: 8:17:36.28 UTC ML= 1.1
lat: 45.879N lon: 18.381E h= 0.0 km
erh= 3.1km erz= 368km
nr= 9 gap=247 rms=0.28
Locality: Kisharsány
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSV	10.1	276	PgU	8:17:37.94	-0.13
			Sg	17:39.44	-0.04
KOVH	31.9	317	Pg	8:17:42.10	0.14
			Sg	17:45.12	-1.28
PKSM	42.1	29	Pg	8:17:43.68	-0.11
			Sg	17:49.67	0.02
MORH	42.6	29	PgU	8:17:43.68	-0.20
			Sg	17:49.71	-0.10
PKS9	79.1	354	Pg	8:17:50.92	0.53

318.

2019-04-16 time: 9:08:03.00 UTC ML= 1.5
lat: 48.585N lon: 20.718E h= 0.0 km
erh= 2.2km erz= 2.8km
nr= 13 gap=107 rms=0.62
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	20.6	237	Pg	9:08:07.11	0.43
			Sg	08:09.72	0.18
ABAH	50.2	130	Pg	9:08:12.03	0.06
			Sg	08:18.20	-0.77
PSZ	96.1	220	Pg	9:08:20.46	0.29
			Sg	08:33.07	-0.49
STHS	100.1	23	ePg	9:08:22.00	1.12
			eSg	08:32.10	-2.73*
LANS	111.2	304	ePg	9:08:22.40	-0.46
			eSg	08:36.70	-1.65
A336	133.2	253	Sn	9:08:43.76	-1.32
VYHS	139.3	266	Pn	9:08:27.59	0.18
			Sn	08:46.42	-0.03

319.

2019-04-16 time: 9:17:06.26 UTC ML= 2.1
lat: 45.524N lon: 17.322E h= 10.0 km
erh= 2.9km erz= 2.3km
nr= 18 gap=126 rms=0.75
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	83.0	61	Pg	9:17:22.08	0.90
			Sg	17:31.44	-1.38
BLY	86.9	187	Pg	9:17:21.78	-0.09
KOVH	87.1	44	Pg	9:17:21.60	-0.31
			Sn	17:41.61	-0.05
BEHE	113.3	338	Pn	9:17:26.64	0.50
			Sn	17:41.61	-0.05
PTJ	114.1	291	Pn	9:17:25.71	-0.53
			Sn	17:40.39	-1.44
PKSM	127.8	53	Pn	9:17:27.83	-0.12
			Sn	17:43.97	-0.89
MORH	128.2	53	Pn	9:17:28.33	0.33
KOGS	132.1	321	Sn	9:17:45.12	-0.69
CRES	149.2	283	Pn	9:17:32.16	1.55
			Sn	17:49.58	-0.03
TIH	159.1	16	Sn	9:17:52.55	0.73

Hypocenter Parameters

Földrengés paraméterek

320.

2019-04-16 time: 9:48:45.85 UTC ML= 1.6
lat: 47.318N lon: 18.402E h= 0.0 km
erh= 3.3km erz= 5.9km
nr= 9 gap=124 rms=0.70
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	8.3	354	PgU	9:48:47.28	-0.05
			Sg	48:47.83	-0.66
CSKK	11.8	295	Pg	9:48:48.66	0.70
			Sg	48:49.91	0.31
NADP	17.7	112	Sg	9:48:54.05	2.59
MORH	123.9	171	Sg	9:49:24.43	-0.79
PKSM	124.3	172	Pg	9:49:07.71	-0.33
			Sg	49:25.43	0.08
PSZ	130.6	59	Sn	9:49:26.49	-0.87

321.

2019-04-16 time: 9:51:55.99 UTC ML= 2.9
lat: 48.294N lon: 16.052E h= 10.0 km
erh= 2.0km erz= 1.8km
nr= 42 gap= 87 rms=1.04
Locality: Austria
Comments:

sta	dist	azm	phase	hr mn sec	res
CONA	43.1	199	PgD	9:52:03.89	0.00
			Sg	52:09.43	-0.61
SOP	77.7	151	PgD	9:52:10.11	0.12
			Sg	52:19.93	-0.97
KRUC	89.1	17	PgD	9:52:11.38	-0.61
			Sg	52:21.88	-2.60
MODS	91.3	84	ePg	9:52:13.40	1.00
			eSg	52:25.20	0.01
TREC	118.8	340	ePn	9:52:15.80	-0.76
			eSn	52:29.20	-3.40
VRAC	119.6	19	PnD	9:52:16.24	-0.42
			Sn	52:30.64	-2.15
ARSA	122.6	199	PnD	9:52:16.61	-0.42
			Sn	52:31.02	-2.43
EGYH	136.7	135	Sn	9:52:36.92	0.34
A338	174.0	100	Sn	9:52:45.19	0.34
SRO	176.9	108	Sn	9:52:45.37	-0.13
ZVC	186.6	313	ePn	9:52:25.60	0.59
			eSn	52:47.20	-0.45
PKST	188.0	128	Sn	9:52:47.24	-0.72
PERS	197.4	201	Pn	9:52:28.00	1.64
MORC	197.7	33	Pn	9:52:27.36	0.96
			Sn	52:49.93	-0.18
GOPC	202.4	333	ePn	9:52:27.60	0.61
			eSn	52:50.70	-0.47
KHC	204.4	297	ePn	9:52:28.00	0.76
			eSn	52:51.90	0.29
KRLC	205.1	15	ePn	9:52:28.80	1.47
			eSn	52:52.10	0.34
VYHS	207.4	84	Pn	9:52:27.98	0.37
PRU	218.3	330	ePn	9:52:29.50	0.54
			eSn	52:54.30	-0.38
A336	219.0	92	Pn	9:52:29.88	0.83
OBKA	228.6	210	Pn	9:52:31.60	1.35
DPC	229.5	5	ePn	9:52:33.20	2.83
			eSn	53:00.50	3.32
PRA	230.1	329	eSn	9:52:57.70	0.39
UPC	246.2	359	ePn	9:52:36.20	3.76
			eSn	53:04.40	3.53*
LANS	268.8	69	ePn	9:52:36.50	1.23
			eSn	53:06.40	0.50
CRNS	281.0	209	ePn	9:52:38.24	1.45
KECS	329.1	86	ePn	9:52:43.90	1.12*
			eSn	53:19.00	-0.28*

322.

2019-04-17 time: 7:24:07.20 UTC ML= 1.0
lat: 47.888N lon: 19.415E h= 0.0 km
erh= 2.9km erz= 992km
nr= 9 gap=138 rms=0.74
Locality: Bercel
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	14.7	223	Pg	7:24:09.29	-0.54
			Sg	24:12.15	0.27
PSZ	36.0	85	Pg	7:24:13.51	-0.12
			Sg	24:18.78	0.13
A336	49.3	321	Sg	7:24:22.10	-0.79
VYHS	80.0	327	Pg	7:24:22.70	1.22
			Sg	24:31.69	-0.93
KECS	103.5	50	ePg	7:24:26.30	0.61
			eSg	24:38.10	-2.01

323.

2019-04-17 time: 9:30:56.33 UTC ML= 1.5
lat: 48.588N lon: 20.741E h= 0.0 km
erh= 1.5km erz= 2.0km
nr= 12 gap= 89 rms=0.46
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	22.2	238	Pg	9:31:00.84	0.54
			Sg	31:03.55	0.16
ABAH	49.1	131	Pg	9:31:05.51	0.40
			Sg	31:11.03	-0.92
PSZ	97.5	220	Pg	9:31:13.59	-0.15
			Sg	31:26.90	-0.42
STHS	99.2	22	ePg	9:31:14.00	-0.05
			eSg	31:25.50	-2.37*
LANS	112.4	304	Pg	9:31:16.53	0.12
KOLS	119.0	71	eSg	9:31:34.40	0.24
A336	134.9	253	Sn	9:31:37.92	-0.87
VYHS	141.1	266	Pn	9:31:21.30	0.34
			Sn	31:39.27	-0.90

324.

2019-04-17 time: 11:16:13.73 UTC ML= 1.5
lat: 47.914N lon: 20.168E h= 0.0 km
erh= 3.7km erz= 655km
nr= 7 gap=209 rms=0.43
Locality: Sirok
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	20.4	271	Pg	11:16:17.43	0.05
			Sg	16:20.51	0.29
KECS	67.5	20	Sg	11:16:35.24	0.04
ABAH	90.4	62	Sg	11:16:42.62	0.15
A336	94.0	292	Pg	11:16:30.21	-0.31
			Sg	16:44.37	0.75
VYHS	118.1	303	Sg	11:16:50.05	-1.23

325.

2019-04-18 time: 8:58:23.13 UTC ML= 1.6
lat: 47.845N lon: 19.109E h= 0.0 km
erh= 2.1km erz= 2.8km
nr= 10 gap=178 rms=0.33
Locality: Szendehegy
Comments: probably explosion

Földrengés paraméterek

sta	dist	azm	phase	hr mn sec	res
PENC	14.3	115	Pg	8:58:25.85	0.17
			Sg	58:27.79	0.12
A336	43.9	349	Pg	8:58:31.45	0.47
			Sg	58:37.12	0.02
PSZ	59.3	82	Pg	8:58:33.53	-0.19
			Sg	58:41.37	-0.61
VYHS	75.0	344	Pg	8:58:36.55	0.03
			Sg	58:46.44	-0.52
KECS	124.6	55	ePg	8:58:45.70	0.32
			eSg	59:00.60	-2.13*
MODS	148.5	293	eSn	8:59:08.10	-0.52

326.

2019-04-18 time: 12:49:04.84 UTC ML= 1.4
lat: 47.208N lon: 19.085E h= 0.0 km
erh= 4.3km erz= 623km
nr= 8 gap=201 rms=0.45
Locality: Áporka
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKS7	18.8	162	Pg	12:49:08.68	0.48
			Sg	49:10.04	-0.78
PKB2	60.5	169	Pg	12:49:15.81	0.16
			Sg	49:35.83	-0.72
PSZ	99.7	38	Pg	12:49:22.82	0.17
			Sg	49:35.83	-0.72
MORH	115.3	197	Pg	12:49:25.63	0.19
			Sg	49:40.49	-1.17
PKSM	115.8	197	Pg	12:49:25.58	0.05
			Sg	49:40.49	-1.17

327.

2019-04-19 time: 10:51:58.16 UTC ML= 1.1
lat: 45.672N lon: 17.268E h= 9.6 km
erh= 2.2km erz= 0.6km
nr= 8 gap=342 rms=0.11
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	79.5	54	Pg	10:52:12.45	0.00
			Sg	52:23.56	-0.04
PKSV	80.2	73	Pg	10:52:12.45	-0.14
			Sg	52:24.10	0.25
PKSM	122.3	61	Pn	10:52:19.28	0.08
			Sn	52:35.64	0.03
MORH	122.7	60	Pn	10:52:19.31	0.06
			Sn	52:35.54	-0.16

328.

2019-04-20 time: 1:21:06.31 UTC ML= 0.1
lat: 47.391N lon: 18.229E h= 10.0 km
erh= 5.7km erz= 2.0km
nr= 6 gap=225 rms=0.15
Locality: Mór
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	4.0	143	PgU	1:21:08.38	0.15
			Sg	21:09.63	-0.10
PKSG	12.2	90	Pg	1:21:09.18	0.05
			Sg	21:10.81	-0.53
PKST	20.8	225	Pg	1:21:10.42	-0.01
			Sg	21:13.61	-0.03

Hypocenter Parameters

329.

2019-04-20 time: 20:18:54.48 UTC ML= 0.9
lat: 47.411N lon: 18.343E h= 5.1 km
erh= 1.2km erz= 0.7km
nr= 6 gap=247 rms=0.03
Locality: Gánt
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSG	4.2	121	PgD	20:18:55.66	0.00
			Sg	18:56.58	0.00
CSKK	8.2	229	Pg	20:18:56.24	0.03
			Sg	18:57.52	-0.04
PKST	28.9	234	Pg	20:18:59.69	-0.03
			Sg	19:03.84	0.04

330.

2019-04-22 time: 7:56:15.69 UTC ML= 1.4
lat: 48.302N lon: 19.371E h= 7.7 km
erh= 2.0km erz= 2.4km
nr= 12 gap=138 rms=0.59
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr mn sec	res
VYHS	45.0	298	PgU	7:56:24.08	0.24
			Sg	56:29.95	-0.24
PENC	57.3	187	Pg	7:56:26.49	0.47
			Sg	56:33.74	-0.33
PSZ	57.8	138	Pg	7:56:26.72	0.61
			Sg	56:34.00	-0.24
KECS	85.0	76	Pg	7:56:30.71	-0.22
			Sg	56:41.67	-1.14
SRO	95.8	235	Sg	7:56:45.07	-1.16
PKSG	125.0	216	Sn	7:56:53.70	-0.52
ABAH	138.7	90	Pn	7:56:39.95	0.91
			Sn	56:56.77	-0.47

331.

2019-04-23 time: 8:02:43.39 UTC ML= 1.0
lat: 47.108N lon: 18.041E h= 0.0 km
erh= 1.3km erz= 355km
nr= 7 gap=125 rms=0.23
Locality: Királyszentistván
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	16.8	358	Pg	8:02:46.03	-0.36
			Sg	02:48.59	-0.14
CSKK	32.9	30	Sg	8:02:53.96	0.11
MPLH	38.7	280	Sg	8:02:56.00	0.32
PKSG	41.2	40	Pg	8:02:51.05	0.30
MORH	109.4	155	Pg	8:03:02.81	-0.11
PKSM	109.7	155	Pg	8:03:02.98	0.01

332.

2019-04-23 time: 8:26:09.07 UTC ML= 1.8
lat: 48.270N lon: 21.238E h= 0.0 km
erh= 4.0km erz= 3.8km
nr= 9 gap=203 rms=0.75
Locality: Tállya
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	60.6	293	Pg	8:26:20.12	0.23
			Sg	26:27.90	-0.43
KOLS	106.1	46	Pg	8:26:28.51	0.48

Hypocenter Parameters

Sg 26:42.46 -0.35
PSZ 107.5 249 Pg 8:26:29.06 0.80
Sg 26:42.07 -1.16
STHS 127.5 0 eSg 8:26:48.80 -0.81
A336 166.4 269 Sn 8:26:59.43 0.92
VYHS 179.7 278 eSn 8:27:00.00 -1.47

333.

2019-04-23 time: 9:10:33.85 UTC ML= 1.2
lat: 47.134N lon: 18.037E h= 0.0 km
erh= 1.7km erz= 629km
nr= 11 gap=120 rms=0.50
Locality: Hajmáskér
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKST	13.9	359	Pg	9:10:36.01			-0.33
			Sg	10:38.32			0.04
CSKK	30.6	34	Sg	9:10:43.49			-0.10
MPLH	37.9	276	Pg	9:10:40.83			0.21
			Sg	10:45.60			-0.31
PKSG	39.3	43	Pg	9:10:41.18			0.32
			Sg	10:46.20			-0.13
MORH	112.1	156	Pg	9:10:54.31			0.43
			Sg	11:08.12			-1.37
PKSM	112.4	156	Pg	9:10:54.43			0.50
			Sg	11:08.04			-1.55

334.

2019-04-23 time: 20:48:47.29 UTC ML= 1.2
lat: 47.563N lon: 18.921E h= 12.1 km
erh= 2.4km erz= 1.9km
nr= 17 gap=112 rms=0.82
Locality: Solymár
Comments:

sta	dist	azm	phase	hr	mn	sec	res
BUD	11.8	139	Pg	20:48:50.51			0.21
			Sg	48:51.99			-0.66
PENC	37.1	47	Pg	20:48:54.89			0.64
NADP	40.9	214	Pg	20:48:55.53			0.62
			Sg	49:00.27			-0.59
PKSG	44.3	245	Sg	20:49:01.90			0.03
A336	74.7	4	Pg	20:49:01.50			0.69
			Sg	49:10.19			-1.17
PSZ	83.0	62	Sg	20:49:12.84			-1.12
PKB2	101.8	166	S*	20:49:18.56			-0.93
VYHS	103.7	357	S*	20:49:18.65			-1.37
PKB5	108.5	187	Sn	20:49:20.09			-1.04
PKB3	128.3	171	Sn	20:49:26.05			0.52
MORH	151.2	188	Sn	20:49:31.65			1.04

335.

2019-04-24 time: 9:19:32.59 UTC ML= 0.7
lat: 47.212N lon: 18.273E h= 0.0 km
erh= 0.5km erz=62.3km
nr= 5 gap=262 rms=0.03
Locality: Iszkaosztógyörgy
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	16.9	357	Pg	9:19:35.63			0.03
			Sg	19:37.94			0.00
PKST	18.8	286	Pg	9:19:35.96			0.02
			Sg	19:38.54			-0.02
PKSG	21.9	24	Pg	9:19:36.46			-0.04

Földrengés paraméterek

336.

2019-04-24 time: 9:32:44.48 UTC ML= 1.5
lat: 48.431N lon: 19.523E h= 0.0 km
erh= 2.0km erz= 5.5km
nr= 13 gap= 79 rms=0.76
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
A336	44.6	240	Pg	9:32:52.71			0.26
			Sg	32:58.94			0.27
VYHS	51.3	278	Pg	9:32:53.92			0.28
			Sg	33:00.24			-0.54
PSZ	63.4	154	Pg	9:32:57.03			1.23
			Sg	33:04.46			-0.17
PENC	73.5	194	Sg	9:33:07.37			-0.46
LANS	80.1	357	Pg	9:32:59.34			0.55
			Sg	33:09.28			-0.66
A338	98.5	242	Sg	9:33:14.69			-1.10
NIE	124.2	28	Sg	9:33:22.42			-1.53
ABAH	128.1	97	Sg	9:33:23.82			-1.38
MODS	166.4	268	eSn	9:33:34.40			0.47

337.

2019-04-24 time: 14:04:11.02 UTC ML= 1.2
lat: 47.367N lon: 18.290E h= 9.2 km
erh= 1.8km erz= 1.2km
nr= 8 gap=171 rms=0.18
Locality: Csókakő
Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	2.2	259	PgU	14:04:12.66			-0.05
			Sg	04:13.21			-0.81
PKSG	8.1	70	Pg	14:04:13.36			0.15
			Sg	04:14.76			-0.15
PKST	22.7	238	Pg	14:04:15.46			0.06
			Sg	04:18.92			0.11
NADP	27.6	116	Sg	14:04:20.39			0.12
PKSM	131.2	168	Sn	14:04:50.36			-0.21

338.

2019-04-24 time: 19:32:53.22 UTC ML= 1.5
lat: 46.318N lon: 19.852E h= 23.6 km
erh= 4.9km erz= 3.7km
nr= 14 gap=176 rms=0.63
Locality: Üllés
Comments:

sta	dist	azm	phase	hr	mn	sec	res
PKS6	38.3	325	PgU	19:33:01.30			0.26
			Sg	33:07.52			0.39
PKB3	51.9	283	Pg	19:33:03.35			0.31
			Sg	33:09.03			-1.67
PKS2	52.8	292	Pg	19:33:03.66			0.49
			Sg	33:10.21			-0.73
AMBH	67.4	87	Pg	19:33:05.35			-0.02
			Sg	33:14.05			-0.80
PKB5	91.1	290	Sn	19:33:20.94			0.08
MORH	93.8	263	Pn	19:33:09.61			0.53
			Sn	33:21.95			0.50
PKSM	94.1	263	Pn	19:33:09.68			0.56
			Sn	33:20.89			-0.62
PKB1	96.4	303	Pn	19:33:08.19			-1.22

Földrengés paraméterek

339.

2019-04-25 time: 7:50:13.35 UTC ML= 1.5
lat: 48.597N lon: 20.751E h= 0.0 km
erh= 4.0km erz= 4.8km
nr= 8 gap=149 rms=0.60
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.3	237	Pg	7:50:17.61	0.10
			Sg	50:20.88	0.12
PSZ	98.7	220	Pg	7:50:31.52	0.55
			Sg	50:43.37	-1.35
LANS	112.5	303	Pg	7:50:33.58	0.14
KOLS	118.0	72	eSg	7:50:50.40	-0.45
VYHS	141.9	265	Pn	7:50:38.45	0.38
			Sn	50:55.67	-1.68

340.

2019-04-25 time: 8:03:42.23 UTC ML= 1.6
lat: 47.860N lon: 19.156E h= 0.0 km
erh= 1.5km erz= 421km
nr= 8 gap=131 rms=0.30
Locality: Ősagárd
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	12.2	129	Pg	8:03:44.47	0.06
A336	43.1	344	Pg	8:03:50.12	0.20
			Sg	03:56.00	0.07
PSZ	55.6	83	Pg	8:03:58.59	-1.33
VYHS	74.4	341	Pg	8:03:55.85	0.34
			Sg	04:05.45	-0.42

341.

2019-04-25 time: 8:39:10.05 UTC ML= 0.6
lat: 47.311N lon: 18.327E h= 0.0 km
erh= 1.8km erz= 281km
nr= 5 gap=227 rms=0.13
Locality: Magyaralmás
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	7.6	319	Pg	8:39:11.30	-0.11
			Sg	39:12.46	-0.01
PKSG	10.2	28	Pg	8:39:11.80	-0.07
			Sg	39:13.51	0.23
PKST	22.9	255	Sg	8:39:17.50	0.18

342.

2019-04-25 time: 9:00:08.97 UTC ML= 0.8
lat: 47.320N lon: 18.314E h= 0.0 km
erh= 1.2km erz= 220km
nr= 6 gap=216 rms=0.13
Locality: Söréd
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	6.2	320	Pg	9:00:10.10	0.02
			Sg	00:10.80	-0.15
PKSG	9.9	36	PgU	9:00:10.65	-0.08
			Sg	00:12.31	0.21
PKST	22.2	252	Pg	9:00:12.86	-0.07
			Sg	00:16.30	0.27

Hypocenter Parameters

343.

2019-04-25 time: 9:33:41.28 UTC ML= 0.9
lat: 46.127N lon: 18.044E h= 0.0 km
erh= 2.5km erz= 319km
nr= 7 gap=289 rms=0.21
Locality: Hetvehely
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	6.1	135	Pg	9:33:42.23	-0.14
			Sg	33:42.83	-0.39
PKSV	31.0	149	Pg	9:33:47.17	0.35
PKSM	47.0	78	Pg	9:33:49.53	-0.15
			Sg	33:56.39	0.16
MORH	47.4	78	Pg	9:33:49.71	-0.02
			Sg	33:56.49	0.16

344.

2019-04-25 time: 9:52:38.14 UTC ML= 1.9
lat: 47.440N lon: 18.412E h= 0.0 km
erh= 2.0km erz= 282km
nr= 7 gap=268 rms=0.19
Locality: Várgesztes
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	5.6	197	Pg	9:52:39.44	0.29
			Sg	52:40.05	0.12
CSKK	14.3	233	Pg	9:52:40.75	0.05
			Sg	52:42.68	-0.01
NADP	25.5	143	Sg	9:52:45.97	-0.29
PKST	35.0	235	Pg	9:52:44.21	-0.17
			Sg	52:49.11	-0.14

345.

2019-04-25 time: 10:01:30.18 UTC ML= 1.7
lat: 48.360N lon: 19.853E h= 0.0 km
erh= 2.0km erz= 772km
nr= 12 gap= 92 rms=0.64
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	48.8	74	Pg	10:01:39.10	0.21
PSZ	49.2	176	Pg	10:01:39.10	0.13
			Sg	01:46.13	0.30
A336	64.9	257	Pg	10:01:42.52	0.75
			Sg	01:50.25	-0.56
PENC	76.3	214	Sg	10:01:54.67	0.23
VYHS	76.7	281	Pg	10:01:43.77	-0.11
			Sg	01:53.31	-1.25
LANS	92.3	342	ePg	10:01:47.40	0.73
			eSg	01:59.40	-0.13
ABAH	103.1	94	Sg	10:02:01.40	-1.54
A338	118.0	251	Sg	10:02:06.72	-0.96

346.

2019-04-26 time: 6:24:44.70 UTC ML= 0.6
lat: 47.208N lon: 18.202E h= 0.0 km
erh= 2.5km erz= 661km
nr= 7 gap=131 rms=0.45
Locality: Csór
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	14.0	294	Pg	6:24:47.50	0.31
			Sg	24:48.60	-0.53

Hypocenter Parameters**Földrendés paraméterek**

CSKK 17.9 14 Pg 6:24:48.25 0.36
Sg 24:49.76 -0.61
PKSG 25.0 35 Pg 6:24:49.48 0.33
Sg 24:52.40 -0.23
PKSM 115.7 163 Sg 6:25:20.58 -0.88

Sg 52:56.33 -0.01
ABAH 102.7 271 P* 5:52:49.71 0.10
S* 53:03.76 -0.10
KECS 160.0 278 Sn 5:53:20.15 3.45*
DRGR 164.9 178 Sn 5:53:17.74 -0.05

347.

2019-04-26 time: 6:29:00.38 UTC ML= 0.6
lat: 47.201N lon: 18.164E h= 0.0 km
erh= 3.9km erz= ***km
nr= 7 gap=141 rms=0.75
Locality: Pétfürdő
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKST	11.8	303	Pg	6:29:02.93			0.45
			Sg	29:03.98			-0.14
CSKK	19.4	22	Pg	6:29:03.63			-0.21
			Sg	29:06.41			-0.14
PKB5	80.2	147	Sg	6:29:27.94			2.06
MORH	115.5	161	Sg	6:29:35.83			-1.27
PKSM	115.9	162	Sg	6:29:36.74			-0.47

348.

2019-04-26 time: 7:35:12.09 UTC ML= 1.4
lat: 47.526N lon: 18.493E h= 0.0 km
erh= 4.2km erz= 392km
nr= 5 gap=230 rms=0.18
Locality: Szárliget
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSG	16.8	207	Pg	7:35:15.26			0.17
			Sg	35:17.49			0.05
CSKK	25.2	224	Pg	7:35:16.31			-0.28
			Sg	35:20.13			0.02
SRO	34.6	337	Sg	7:35:23.22			0.12

349.

2019-04-26 time: 10:14:49.66 UTC ML= 2.0
lat: 48.556N lon: 20.774E h= 0.0 km
erh= 2.8km erz= 538km
nr= 6 gap=180 rms=0.32
Locality: Tornanádaska
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	22.8	249	Pg	10:14:53.75			0.03
			Sg	14:56.94			0.05
ABAH	45.0	130	Sg	10:15:03.82			-0.14
PSZ	96.4	223	Pg	10:15:07.21			0.34
			Sg	15:19.13			-1.17
KOLS	118.0	69	Pg	10:15:10.67			-0.06

350.

2019-04-28 time: 5:52:31.36 UTC ML= 1.9
lat: 48.274N lon: 22.622E h= 11.8 km
erh= 0.6km erz= 0.3km
nr= 7 gap=197 rms=0.06
Locality: Ukraine
Comments:

sta	dist	azm	phase	hr	mn	sec	res
TRPA	17.1	201	Pg	5:52:35.09			0.03
			Sg	52:37.91			-0.05
KOLS	77.7	341	Pg	5:52:45.37			-0.02

351.

2019-04-29 time: 1:09:51.38 UTC ML= 2.0
lat: 45.757N lon: 17.973E h= 4.1 km
erh= 2.1km erz= 1.5km
nr= 19 gap=202 rms=0.43
Locality: Croatia
Comments:

sta	dist	azm	phase	hr	mn	sec	res
KOVH	38.2	15	PgD	1:09:58.69			0.46
			Sg	10:03.90			0.32
PKSM	72.4	46	PgD	1:10:04.36			0.03
			Sg	10:13.99			-0.44
MORH	72.9	46	PgD	1:10:04.42			0.01
			Sg	10:14.08			-0.50
PKS9	95.3	14	Pg	1:10:08.57			0.16
			Sg	10:22.14			0.45
PKB5	110.2	32	Pg	1:10:10.60			-0.48
PKS2	126.0	50	Pn	1:10:13.23			-0.37
			Sn	10:31.66			0.74
TIH	127.2	357	Pn	1:10:14.27			0.52
BLY	128.0	209	Sn	1:10:27.52			-3.85*
PKB1	130.5	29	Pn	1:10:14.50			0.34
			Sn	10:30.56			-1.38
FRGS	159.5	116	Sn	1:10:38.15			-0.21
MPLH	160.6	348	Sn	1:10:38.80			0.18

352.

2019-04-29 time: 7:50:05.91 UTC ML= 1.5
lat: 47.360N lon: 18.407E h= 0.0 km
erh= 2.1km erz= 259km
nr= 6 gap=267 rms=0.15
Locality: Gánt
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSG	3.7	341	PgU	7:50:06.53			-0.05
			Sg	50:06.98			-0.12
CSKK	11.1	272	Pg	7:50:07.92			0.03
			Sg	50:09.73			0.30
PKST	30.3	248	Pg	7:50:11.41			0.08
			Sg	50:15.20			-0.35

353.

2019-04-29 time: 8:01:36.83 UTC ML= 1.9
lat: 47.836N lon: 19.901E h= 0.0 km
erh= 5.8km erz= ***km
nr= 8 gap=184 rms=0.99
Locality: Gyöngyösoroszi
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PSZ	9.2	357	Pg	8:01:37.46			-1.00
			Sg	01:39.95			0.21
PENC	46.6	264	Pg	8:01:46.51			1.36
A336	80.5	303	Pg	8:01:52.00			0.81
			Sg	02:02.38			-0.02
ABAH	112.1	63	Pg	8:01:56.62			-0.23
			Sg	02:12.08			-0.39
PKSG	123.8	246	Sg	8:02:13.45			-2.73

Földrengés paraméterek

354.

2019-04-29 time: 8:31:48.28 UTC ML= 1.5
lat: 48.421N lon: 19.121E h= 0.0 km
erh= 2.1km erz= 3.1km
nr= 14 gap=117 rms=0.86
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	22.6	291	Pg	8:31:52.12	-0.19
			Sg	31:55.83	0.38
A336	22.8	203	Pg	8:31:52.60	0.25
			Sg	31:55.42	-0.10
PENC	71.2	170	Sg	8:32:10.58	-0.32
A338	72.8	232	Sg	8:32:13.12	1.70
PSZ	80.2	134	Pg	8:32:03.72	1.11
			Sg	32:12.29	-1.49
LANS	85.0	17	ePg	8:32:04.00	0.54
SRO	90.5	222	Sg	8:32:16.41	-0.63
CSKK	134.1	209	Sn	8:32:29.03	-1.53
MODS	136.6	268	ePn	8:32:12.30	-0.05
			eSn	32:29.40	-1.72
MORC	189.8	323	Sn	8:32:41.49	-1.43

355.

2019-04-29 time: 9:51:50.26 UTC ML= 2.4
lat: 48.234N lon: 21.235E h= 0.0 km
erh= 1.8km erz= 3.7km
nr= 9 gap=154 rms=0.48
Locality: Tállya
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	6.9	3	Pg	9:51:51.68	0.19
			Sg	51:53.17	0.73
TRPA	97.7	97	Pg	9:52:07.88	0.18
			Sg	52:20.84	-0.47
PSZ	105.9	251	Pg	9:52:09.64	0.47
			Sg	52:23.30	-0.62
KOLS	109.1	45	Pg	9:52:09.80	0.05
			Sg	52:24.16	-0.78
STHS	131.5	0	Sn	9:52:27.67	-4.29*
A336	166.1	270	Sn	9:52:38.67	-0.98

356.

2019-04-29 time: 10:00:14.90 UTC ML= 1.6
lat: 48.172N lon: 16.889E h= 0.0 km
erh= 4.3km erz= 3.9km
nr= 8 gap=235 rms=0.42
Locality: Austria
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CONA	81.2	251	Pg	10:00:29.66	0.26
			Sg	00:40.26	-0.45
KRUC	105.4	340	Pg	10:00:33.89	0.17
			Sg	00:48.78	0.37
VRAC	128.2	350	Pg	10:00:37.68	-0.11
			Sg	00:54.68	-0.97
ARSA	144.9	225	Pn	10:00:40.39	0.39
			Sn	00:58.71	-0.87

Hypocenter Parameters

357.

2019-04-30 time: 7:17:03.91 UTC ML= 1.5
lat: 47.978N lon: 20.018E h= 0.0 km
erh= 2.2km erz= 4.2km
nr= 9 gap=203 rms=0.47
Locality: Mátraballa
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	11.4	234	Pg	7:17:05.70	-0.25
			Sg	17:07.46	-0.07
PENC	58.9	249	Sg	7:17:22.35	-0.29
KECS	66.0	32	Pg	7:17:15.58	-0.12
			Sg	17:24.08	-0.81
A336	81.0	290	Sg	7:17:29.76	0.09
VYHS	104.9	303	Pg	7:17:23.35	0.71
			Sg	17:36.65	-0.60
LANS	136.6	343	Pn	7:17:28.62	0.65

358.

2019-04-30 time: 9:10:05.49 UTC ML= 1.6
lat: 48.091N lon: 20.606E h= 0.0 km
erh= 4.0km erz= 2.7km
nr= 5 gap=262 rms=0.28
Locality: Lillafüred
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	44.5	348	Pg	9:10:13.57	0.12
			Sg	10:19.43	-0.22
PSZ	56.5	250	Pg	9:10:15.56	-0.02
			Sg	10:23.89	0.44
VYHS	138.8	289	Sn	9:10:48.15	-0.67

359.

2019-04-30 time: 9:14:46.67 UTC ML= 1.4
lat: 46.089N lon: 17.871E h= 0.0 km
erh= 3.3km erz= 555km
nr= 7 gap=216 rms=0.36
Locality: Zsibót
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	17.7	90	Pg	9:14:50.00	0.16
PKSM	61.1	77	Pg	9:14:57.38	-0.20
MORH	61.4	77	Pg	9:14:57.45	-0.18
PKB5	87.2	50	Sg	9:15:14.42	0.04
MPLH	122.8	348	Pg	9:15:09.36	0.76
			Sg	15:25.13	-0.57

360.

2019-04-30 time: 10:08:55.02 UTC ML= 1.8
lat: 47.944N lon: 20.024E h= 0.0 km
erh= 4.0km erz= 3.0km
nr= 13 gap=183 rms=0.81
Locality: Bodony
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	10.1	253	Pg	10:08:56.88	0.07
			Sg	08:59.01	0.79
PENC	58.1	253	Sg	10:09:13.79	0.31
KECS	69.1	30	Pg	10:09:07.65	0.30
			Sg	09:16.43	-0.54
A336	82.8	293	Pg	10:09:10.67	0.87
VYHS	107.3	305	Pg	10:09:14.10	-0.08
			Sg	09:26.83	-2.30

PKS7	119.0	213	Sg	10:09:31.37	-1.49
PKSG	137.2	243	Sn	10:09:36.78	-1.20
LANS	140.3	343	Pn	10:09:20.45	0.91
			Sn	09:37.68	-0.99
NIE	165.4	7	Sn	10:09:44.26	0.02

```

2019-04-30 time: 10:14:41.90 UTC ML= 1.5
lat: 48.635N lon: 21.416E h= 0.0 km
erh= 2.1km erz= 5.0km
nr= 10 gap= 75 rms=0.52
Locality: Slovakia
Comments: probably explosion

```

2019-04-30 time: 17:52:21.77 UTC ML= 0.5
lat: 47.377N lon: 18.107E h= 3.2 km
erh= 2.8km erz= 6.1km
nr= 6 gap=243 rms=0.11
Locality: Nagyveleg
Comments:

```

2019-05-01 time: 9:03:53.03 UTC ML= 1.7
lat: 45.528N lon: 18.199E h= 0.0 km
erh= 3.6km erz= 3.7km
nr= 9 gap=244 rms=0.41
Locality: Croatia
Comments: probably explosion

```

sta	dist	azm	phase	hr	mn	sec	res
KOVH	62.8	353	Pg	9:04:03.79			-0.46
			Sg		04:13.35		0.35
PKSM	83.5	24	Pg	9:04:07.58			-0.35
			Sg		04:19.30		-0.26
MORH	83.9	24	Pg	9:04:07.68			-0.34
			Sg		04:20.00		0.29
PKS9	117.9	3	Pg	9:04:14.72			0.63
FRGS	133.6	109	Sn	9:04:35.43			0.23
PKB1	147.0	18	Pn	9:04:18.82			0.42

2019-05-01 time: 9:15:11.21 UTC ML= 2.6
lat: 45.639N lon: 16.255E h= 10.0 km
 erh= 1.8km erz= 1.4km
nr= 41 gap=116 rms=0.70
Locality: Croatia
Comments:

```

2019-05-02  time:  7:18:47.18  UTC  ML= 1.6
lat: 48.577N lon: 20.756E h= 0.0 km
           erh= 2.6km      erz= 2.8km
nr= 12      gap=126      rms=0.86
Locality: Tornanadaska
Comments: probably explosion

```

sta	dist	azm	phase	hr	mn	sec	res
KECS	22.6	242	Pg	7:18:51.60			0.39
			Sg	18:54.27			-0.08
ABAH	47.5	131	Sg	7:19:01.92			-0.35
PSZ	97.3	221	Pg	7:19:05.19			0.64
			Sg	19:18.08			-0.02
LANS	114.0	304	Pg	7:19:07.20			-0.34
KOLS	118.4	70	ePg	7:19:10.40			2.08
			eSg	19:24.60			-0.20
A336	135.6	254	Sn	7:19:29.03			-0.77
TRPA	141.2	111	Sn	7:19:28.97			-2.06
VYHS	142.1	266	Pn	7:19:11.98			0.05
			Sn	19:29.54			-1.70

Földrengés paraméterek

366.

2019-05-02 time: 8:29:23.45 UTC ML= 1.6
lat: 47.897N lon: 19.403E h= 0.0 km
erh= 2.8km erz= 6.4km
nr= 12 gap=131 rms=1.01
Locality: Bercel
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	14.9	217	Pg	8:29:26.27	0.16
			Sg	29:28.97	0.79
PSZ	36.9	86	Pg	8:29:29.98	-0.05
			Sg	29:35.45	0.29
A336	48.0	321	Pg	8:29:32.54	0.53
			Sg	29:37.94	-0.76
VYHS	78.6	328	Pg	8:29:38.94	1.45
			Sg	29:47.08	-1.35
PKSG	94.5	234	Sg	8:29:51.82	-1.67
KECS	103.6	51	ePg	8:29:42.60	0.65
			eSg	29:54.20	-2.18
MODS	166.8	289	eSn	8:30:11.00	-1.99

367.

2019-05-02 time: 8:47:15.74 UTC ML= 1.6
lat: 47.861N lon: 19.116E h= 0.0 km
erh= 3.7km erz= 554km
nr= 6 gap=221 rms=0.33
Locality: Szendehely
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	14.7	122	Pg	8:47:18.56	0.20
			Sg	47:19.94	-0.46
A336	42.3	348	Sg	8:47:29.77	0.58
			Pg	8:47:26.24	0.04
PSZ	58.6	84	Sg	47:34.24	-0.11
			Sg	8:47:38.57	-0.51
VYHS	73.4	344	Sg		

368.

2019-05-02 time: 10:11:40.46 UTC ML= 1.5
lat: 48.443N lon: 20.711E h= 0.0 km
erh= 2.8km erz= 368km
nr= 5 gap=188 rms=0.17
Locality: Szalonna
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	17.2	285	Pg	10:11:43.36	-0.18
			Sg	11:46.23	0.29
ABAH	42.4	113	Pg	10:11:48.01	-0.03
			Sg	11:54.25	0.30
PSZ	84.2	226	Pg	10:11:55.44	-0.06

369.

2019-05-03 time: 8:04:05.61 UTC ML= 1.4
lat: 48.588N lon: 20.735E h= 0.0 km
erh= 1.8km erz= 3.4km
nr= 13 gap= 89 rms=0.55
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	21.8	238	Pg	8:04:10.01	0.51
			Sg	04:12.68	0.15
ABAH	49.5	131	Pg	8:04:14.09	-0.36
			Sg	04:20.81	-0.52

Hypocenter Parameters

PSZ	97.1	220	Pg	8:04:23.03	0.07
			Sg	04:36.08	-0.41
STHS	99.4	22	ePg	8:04:23.10	-0.27
LANS	112.1	304	ePg	8:04:25.90	0.28
			eSg	04:39.70	-1.53
KOLS	119.5	71	ePg	8:04:27.80	0.86
			eSg	04:42.50	-1.08
VYHS	140.6	266	Pn	8:04:30.68	0.50
			Sn	04:47.99	-1.35
LJU	548.0	239	eSn	8:04:43.80	-95.95*

370.

2019-05-03 time: 9:53:39.05 UTC ML= 1.5
lat: 47.463N lon: 18.724E h= 0.0 km
erh= 1.6km erz= 5.5km
nr= 17 gap= 97 rms=1.56
Locality: Etyek
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
BUD	22.7	84	Pg	9:53:44.12	1.02
			Sg	53:47.65	1.39
PKSG	26.4	253	Pg	9:53:44.12	0.36
			Sg	53:48.48	1.04
CSKK	36.7	252	Pg	9:53:45.71	0.10
			Sg	53:51.87	1.15
PKST	56.8	247	Pg	9:53:49.24	0.04
			Sg	53:58.03	0.91
A336	88.1	13	Pg	9:53:54.85	0.07
			Sg	54:06.48	-0.57
MPLH	95.3	250	Sg	9:54:08.63	-0.72
PKB5	96.5	179	Sg	9:54:09.74	0.02
PSZ	101.4	60	Sg	9:54:10.77	-0.51
EGYH	105.2	267	Sg	9:54:12.37	-0.11
VYHS	115.0	4	Pg	9:54:00.73	1.15
			Sg	54:15.48	-0.11
KECS	173.7	49	ePn	9:54:02.00	-5.74
			eSn	54:05.60	-24.52*

371.

2019-05-03 time: 10:24:09.93 UTC ML= 1.6
lat: 48.363N lon: 19.874E h= 0.0 km
erh= 2.9km erz= 726km
nr= 7 gap=153 rms=0.48
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	47.2	74	Pg	10:24:18.34	-0.01
			Pg	10:24:18.62	-0.14
PSZ	49.5	178	Sg	24:25.46	-0.20
			Pg	10:24:22.69	0.89
A336	66.5	257	Sg	24:30.84	-0.23
			Pg	10:24:23.88	-0.01
VYHS	78.2	281	Sg	24:33.68	-1.09

372.

2019-05-03 time: 20:20:09.64 UTC ML= 1.7
lat: 48.789N lon: 19.507E h= 1.5 km
erh= 1.9km erz= 2.8km
nr= 20 gap= 75 rms=0.73
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr mn sec	res
LANS	40.3	356	Pg	20:20:16.87	0.03
			Sg	20:21.70	-0.76
VYHS	59.3	236	Pg	20:20:20.22	-0.02
			Sg	20:27.85	-0.65
A336	72.3	211	Pg	20:20:23.12	0.57
			Sg	20:31.47	-1.16

Hypocenter Parameters

KECS	79.8	115	Pg	20:20:24.60	0.71
			Sg	20:33.86	-1.14
NIE	91.5	40	Pg	20:20:26.10	0.12
			Sg	20:37.75	-0.98
PSZ	101.0	163	Pg	20:20:28.52	0.84
			Sg	20:40.75	-0.99
PENC	112.3	189	Pg	20:20:29.89	0.20
			Sg	20:44.24	-1.09
SRO	140.0	219	ePn	20:20:35.10	1.16
			eSn	20:51.80	-1.10
OJC	160.5	8	Sn	20:20:57.19	-0.25
MORC	180.3	308	Pn	20:20:39.99	1.03
			Sn	21:01.06	-0.77
KRLC	244.0	306	eSn	20:21:16.50	0.52

373.

2019-05-04 time: 8:52:13.37 UTC ML= 0.9
lat: 46.158N lon: 18.291E h= 0.0 km
erh= 1.5km erz= 521km
nr= 11 gap=108 rms=0.44
Locality: Vasas
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	16.7	242	Pg	8:52:16.39	0.05
			Sg	52:18.08	-0.58
PKSM	27.7	78	Pg	8:52:18.35	0.03
			Sg	52:21.53	-0.65
MORH	28.0	77	Pg	8:52:18.37	0.00
			Sg	52:22.20	-0.08
PKSV	30.1	186	Pg	8:52:18.97	0.23
			Sg	52:23.50	0.57
PKB4	44.7	33	Sg	8:52:27.78	0.21
PKB1	79.6	29	Sg	8:52:39.93	1.27
TIH	88.0	340	Sg	8:52:40.34	-0.98

374.

2019-05-06 time: 4:19:34.43 UTC ML= 0.6
lat: 47.395N lon: 18.258E h= 5.2 km
erh= 5.2km erz= 2.7km
nr= 6 gap=223 rms=0.10
Locality: Mór
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	3.5	177	PgU	4:19:35.70	0.15
			Sg	19:36.35	-0.06
PKSG	10.0	92	PgD	4:19:36.46	0.01
			Sg	19:37.86	-0.16
PKST	22.6	228	Pg	4:19:38.49	-0.09
			Sg	19:41.89	0.08

375.

2019-05-06 time: 4:21:30.00 UTC ML= 0.4
lat: 47.401N lon: 18.261E h= 4.3 km
erh= 0.8km erz= 0.6km
nr= 5 gap=228 rms=0.06
Locality: Pusztavám
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	4.2	180	Pg	4:21:31.15	0.08
			Sg	21:31.88	-0.02
PKSG	9.8	96	Pg	4:21:31.93	0.01
			Sg	21:33.33	-0.08
PKST	23.3	227	Sg	4:21:37.43	-0.09

Földrengés paraméterek

376.

2019-05-06 time: 5:34:04.89 UTC ML= 0.4
lat: 47.404N lon: 18.263E h= 4.2 km
erh= 1.2km erz= 0.9km
nr= 5 gap=231 rms=0.06
Locality: Pusztavám
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	4.5	182	Pg	5:34:06.08	0.08
			Sg	34:06.84	-0.03
PKSG	9.7	98	Pg	5:34:06.79	0.00
			Sg	34:08.20	-0.07
PKST	23.6	227	Sg	5:34:12.44	-0.08

377.

2019-05-06 time: 10:01:09.26 UTC ML= 1.7
lat: 47.350N lon: 18.476E h= 0.0 km
erh= 2.6km erz= 464km
nr= 8 gap=229 rms=0.33
Locality: Lovasberény
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	7.9	306	PgU	10:01:10.80	0.12
			Sg	01:11.28	-0.50
CSKK	16.3	275	Pg	10:01:12.25	0.07
			Sg	01:13.94	-0.52
PKST	34.9	253	Pg	10:01:15.97	0.47
			Sg	01:20.54	0.18
MORH	126.8	174	Sg	10:01:49.32	-0.24
PKSM	127.2	174	Sg	10:01:49.33	-0.36

378.

2019-05-06 time: 16:08:06.02 UTC ML= 0.7
lat: 47.343N lon: 18.295E h= 4.8 km
erh= 3.0km erz= 2.4km
nr= 6 gap=191 rms=0.08
Locality: Csákberény
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	3.4	310	Pg	16:08:07.10	0.04
			Sg	08:07.90	0.02
PKSG	9.0	53	Pg	16:08:07.83	-0.02
			Sg	08:09.23	-0.04
PKST	21.8	244	Pg	16:08:10.09	0.08
			Sg	08:12.92	-0.20

379.

2019-05-06 time: 16:11:01.17 UTC ML= 0.7
lat: 47.397N lon: 18.264E h= 5.0 km
erh= 1.5km erz= 0.8km
nr= 6 gap=225 rms=0.06
Locality: Pusztavám
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	3.8	184	PgU	16:11:02.39	0.10
			Sg	11:03.15	-0.02
PKSG	9.6	94	Pg	16:11:03.09	-0.01
			Sg	11:04.55	-0.06
PKST	23.2	228	Pg	16:11:05.39	-0.01
			Sg	11:08.63	-0.07

Földrengés paraméterek

380.

2019-05-07 time: 0:52:36.45 UTC ML= 1.1
lat: 48.650N lon: 19.426E h= 3.9 km
erh= 1.1km erz=23.4km
nr= 9 gap=115 rms=0.64
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr mn sec	res
VYHS	46.8	248	Pg	0:52:44.87	0.03
			Sg	52:50.19	-1.19
LANS	55.8	3	Pg	0:52:46.90	0.46
			Sg	52:53.29	-0.94
A336	56.0	214	Pg	0:52:47.11	0.63
			Sg	52:53.52	-0.78
KECS	80.4	103	Pg	0:52:51.13	0.31
PSZ	88.4	157	Pg	0:52:52.68	0.42
			Sg	53:03.42	-1.16

381.

2019-05-07 time: 7:12:36.73 UTC ML= 1.3
lat: 47.304N lon: 17.675E h= 0.0 km
erh= 1.9km erz= 3.7km
nr= 8 gap=114 rms=0.44
Locality: Bakonykoppány
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
MPLH	18.1	215	Pg	7:12:39.83	-0.13
			Sg	12:42.12	-0.35
PKST	27.7	100	Pg	7:12:41.86	0.19
			Sg	12:46.09	0.57
EGYH	28.8	296	Sg	7:12:46.77	0.88
CSKK	44.8	82	Sg	7:12:50.97	0.01
SRO	74.3	40	eSg	7:12:59.70	-0.64
VYHS	158.3	33	eSn	7:13:23.70	-0.68

382.

2019-05-07 time: 8:12:24.32 UTC ML= 1.4
lat: 48.584N lon: 20.791E h= 0.0 km
erh= 4.1km erz= 3.7km
nr= 7 gap=168 rms=0.59
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	25.2	244	Pg	8:12:29.12	0.30
			Sg	12:31.79	-0.53
PSZ	99.5	222	Pg	8:12:42.70	0.60
LANS	115.7	303	Pg	8:12:44.89	-0.09
TRPA	139.1	111	Sn	8:13:06.62	-1.08
VYHS	144.7	266	Pn	8:12:49.68	0.28
			Sn	13:07.44	-1.51

383.

2019-05-07 time: 8:27:10.00 UTC ML= 1.9
lat: 47.324N lon: 18.441E h= 0.0 km
erh= 1.2km erz= 2.9km
nr= 13 gap=114 rms=0.41
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	8.4	333	Pg	8:27:11.61	0.11
			Sg	27:12.14	-0.54
CSKK	14.3	287	Pg	8:27:12.50	-0.06
			Sg	27:14.12	-0.44

110

Hypocenter Parameters

PKST	31.6	257	Sg	8:27:19.65	-0.41
MPLH	70.4	256	Sg	8:27:33.56	1.18
A336	109.3	22	Pg	8:27:29.49	-0.04
			Sg	27:45.17	0.41
MORH	124.2	173	Sg	8:27:49.19	-0.29
PKSM	124.6	173	Sg	8:27:49.75	0.14
PSZ	127.6	59	Sg	8:27:50.77	0.20
VYHS	133.4	13	Pn	8:27:33.97	0.31
			Sn	27:50.51	-1.61

384.

2019-05-07 time: 8:33:23.05 UTC ML= 1.9
lat: 45.600N lon: 17.337E h= 12.6 km
erh= 1.9km erz= 1.3km
nr= 18 gap=214 rms=0.41
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	78.1	66	Pg	8:33:37.08	-0.10
			Sg	33:48.37	0.17
KOVH	80.4	48	Pg	8:33:37.37	-0.21
			Sg	33:48.96	0.05
BEHE	106.0	336	Pn	8:33:41.90	0.21
			Sn	33:56.57	0.33
PTJ	112.4	287	Pn	8:33:41.72	-0.76
			Sn	33:55.51	-2.13*
PKSM	122.0	56	Pn	8:33:43.47	-0.21
			Sn	33:59.66	-0.11
MORH	122.4	56	Pn	8:33:43.75	0.02
			Sn	33:59.66	-0.20
KOGS	126.4	318	Pn	8:33:45.15	0.92
			Sn	34:00.00	-0.75
CRES	148.5	280	Pn	8:33:47.55	0.56
			Sn	34:05.56	-0.11

385.

2019-05-07 time: 9:56:20.42 UTC ML= 1.0
lat: 47.199N lon: 18.287E h= 0.0 km
erh= 1.7km erz= 393km
nr= 8 gap=146 rms=0.29
Locality: Csór
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	18.4	354	Pg	9:56:23.78	0.08
			Sg	56:26.19	-0.06
PKST	20.2	289	Pg	9:56:23.84	-0.19
			Sg	56:26.63	-0.22
PKSG	22.8	20	Pg	9:56:24.40	-0.10
			Sg	56:27.87	0.19
MPLH	56.7	267	Pg	9:56:31.02	0.48
PKSM	113.0	166	Sg	9:56:55.41	-0.94

386.

2019-05-07 time: 11:18:30.21 UTC ML= 1.5
lat: 47.349N lon: 18.427E h= 0.0 km
erh= 3.6km erz= 6.4km
nr= 9 gap=159 rms=0.69
Locality: Gánt
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	5.5	330	Pg	11:18:31.25	0.06
			Sg	18:31.66	-0.29
CSKK	12.6	277	Pg	11:18:32.56	0.09
			Sg	18:34.16	-0.07
PKST	31.3	251	Pg	11:18:36.17	0.37
MORH	127.1	172	Pg	11:18:54.06	1.16

Hypocenter Parameters

		Sg	19:09.58	-1.02
PKSM	127.5 173	Sg	11:19:09.84	-0.89
VYHS	130.9 14	Sn	11:19:10.14	-1.65

387.

2019-05-07 time: 11:51:46.43 UTC ML= 1.7
lat: 48.789N lon: 20.075E h= 1.5 km
erh= 3.1km erz= 5.9km
nr= 12 gap=124 rms=0.81
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr mn sec	res
KECS	45.5 138	Pg		11:51:54.68	0.13
LANS	60.0 312	Pg		11:51:57.92	0.78
		Sg		52:05.21	-0.29
NIE	72.2 14	Pg		11:51:59.27	-0.06
		Sg		52:07.34	-2.05
VYHS	97.0 250	Pg		11:52:04.53	0.77
		Sg		52:15.28	-1.99
PSZ	97.7 188	Pg		11:52:03.20	-0.67
A336	100.7 232	Pg		11:52:05.22	0.81
		Sg		52:17.26	-1.18
A338	153.9 236	Pn		11:52:13.00	0.55
OJC	160.4 353	Pn		11:52:13.24	-0.03

388.

2019-05-07 time: 12:43:43.60 UTC ML= 0.8
lat: 47.898N lon: 19.244E h= 2.4 km
erh= 2.7km erz=21.1km
nr= 6 gap=167 rms=0.24
Locality: Alsópetény
Comments:

sta	dist	azm	phase	hr mn sec	res
PENC	12.3 167	Pg		12:43:45.69	-0.14
		Sg		43:47.56	-0.01
A336	41.5 334	Sg		12:43:57.04	0.22
PSZ	48.6 87	Pg		12:43:52.59	0.29
		Sg		43:58.63	-0.45
VYHS	72.9 335	Sg		12:44:06.70	-0.09

389.

2019-05-07 time: 17:52:28.99 UTC ML= 1.0
lat: 47.843N lon: 19.354E h= 0.2 km
erh= 2.5km erz= 169km
nr= 7 gap=144 rms=0.29
Locality: Nógrádsáp
Comments:

sta	dist	azm	phase	hr mn sec	res
PENC	8.0 223	PgU		17:52:30.22	-0.20
		Sg		52:31.50	-0.03
PSZ	41.3 78	Pg		17:52:36.56	0.20
		Sg		52:41.88	-0.23
A336	50.8 329	Pg		17:52:38.52	0.46
		Sg		52:44.97	-0.17
VYHS	82.0 332	Sg		17:52:54.58	-0.46

390.

2019-05-08 time: 9:44:23.18 UTC ML= 1.3
lat: 47.051N lon: 17.887E h= 0.0 km
erh= 5.5km erz= 866km
nr= 12 gap=207 rms=0.72
Locality: Veszprémfajs
Comments: probably explosion

Földrengés paraméterek

sta	dist	azm	phase	hr mn sec	res
TIH	16.8 178	Sg		9:44:28.93	0.42
PKST	25.7 26	Pg		9:44:27.98	0.22
		Sg		44:31.35	0.01
CSKK	44.8 39	Pg		9:44:31.06	-0.11
		Sg		44:36.49	-0.92
PKSG	53.8 45	Pg		9:44:32.34	-0.44
		Sg		44:40.49	0.22
PKB1	75.1 113	Pg		9:44:38.10	1.52
MORH	109.5 148	Pg		9:44:43.01	0.29
		Sg		44:56.01	-1.96
PKSM	109.7 148	Pg		9:44:42.77	0.00
		Sg		44:56.84	-1.21

391.

2019-05-08 time: 10:34:07.69 UTC ML= 0.8
lat: 47.235N lon: 18.263E h= 0.0 km
erh= 1.1km erz= 271km
nr= 7 gap=137 rms=0.18
Locality: Iszaskaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	14.2 359	Pg		10:34:10.15	-0.08
		Sg		34:12.31	0.10
PKST	17.5 279	Pg		10:34:10.53	-0.28
		Sg		34:13.48	0.23
PKSG	19.9 29	Pg		10:34:11.15	-0.09
		Sg		34:14.30	0.28
PKSM	117.4 166	Pg		10:34:28.80	0.15

392.

2019-05-08 time: 10:35:28.73 UTC ML= 1.5
lat: 45.529N lon: 17.712E h= 12.7 km
erh= 4.7km erz= 1.9km
nr= 11 gap=234 rms=0.48
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	58.0 46	Pg		10:35:39.25	-0.08
		Sg		35:47.47	-0.13
KOVH	69.0 26	Pg		10:35:42.12	0.85
		Sg		35:50.49	-0.56
PKSM	104.7 44	Pn		10:35:46.73	-0.46
		Sn		36:01.81	0.22
MORH	105.2 43	Pn		10:35:47.06	-0.19
		Sn		36:02.15	0.45
PTJ	142.7 287	Sn		10:36:09.39	-0.63
CRES	178.8 281	Pn		10:35:56.39	-0.04
		Sn		36:19.20	1.16

393.

2019-05-09 time: 9:00:18.16 UTC ML= 1.2
lat: 46.113N lon: 18.071E h= 0.0 km
erh= 0.6km erz= 139km
nr= 11 gap=226 rms=0.11
Locality: Bakonya
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	3.5 141	Pg		9:00:18.99	0.20
		Sg		00:20.26	0.98*
PKSV	28.6 151	Pg		9:00:23.15	-0.12
		Sg		00:27.17	-0.08
PKSM	45.4 76	Pg		9:00:26.16	-0.11
		Sg		00:32.57	-0.02
MORH	45.7 76	Pg		9:00:26.31	-0.01

Földrengés paraméterek

			Sg	00:32.72	0.03
PKS9	55.1	17	Pg	9:00:28.04	0.04
			Sg	00:35.62	-0.05
PKB4	59.2	44	Sg	9:00:37.05	0.08

394.

2019-05-09 time: 9:28:14.39 UTC ML= 1.8
lat: 48.843N lon: 20.455E h= 5.3 km
erh= 4.0km erz= 3.7km
nr= 15 gap= 95 rms=1.15
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr mn sec	res
KECS	40.0	177	Pg	9:28:21.37	-0.24
			Sg	28:26.80	-0.43
NIE	64.9	351	Pg	9:28:25.35	-0.67
			Sg	28:32.52	-2.57
LANS	80.0	295	ePg	9:28:30.20	1.50
			eSg	28:38.50	-1.36
PSZ	110.9	202	Pg	9:28:34.91	0.70
			Sg	28:48.55	-1.12
VYHS	125.4	252	Pn	9:28:38.06	1.67
			Sn	28:51.14	-2.41
A336	127.1	238	Sn	9:28:53.74	-0.19
KOLS	133.7	86	ePn	9:28:37.90	0.47
			eSn	28:53.90	-1.49
OJC	160.3	343	Pn	9:28:41.49	0.74
			Sn	29:01.94	0.64

395.

2019-05-09 time: 9:45:48.10 UTC ML= 1.9
lat: 47.252N lon: 17.679E h= 0.0 km
erh= 1.9km erz= 305km
nr= 5 gap=219 rms=0.14
Locality: Németbánya
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
MPLH	14.0	229	Pg	9:45:50.58	-0.02
			Sg	45:52.44	-0.10
PKST	26.9	88	Sg	9:45:56.54	-0.11
TIH	42.4	157	Pg	9:45:55.88	0.21
			Sg	46:01.42	-0.15

396.

2019-05-10 time: 5:32:54.53 UTC ML= 1.5
lat: 47.730N lon: 18.078E h= 10.0 km
erh= 9.5km erz=12.2km
nr= 6 gap=143 rms=0.61
Locality: Komárom
Comments:

sta	dist	azm	phase	hr mn sec	res
SRO	19.9	62	Pg	5:32:58.92	0.41
			Sg	33:00.94	-0.68
A338	37.8	33	Pg	5:33:02.21	0.70
			Sg	33:05.99	-0.97
A337	61.1	339	Sg	5:33:13.71	-0.50

Hypocenter Parameters

397.

2019-05-10 time: 9:35:48.74 UTC ML= 2.4
lat: 48.242N lon: 21.273E h= 0.0 km
erh= 2.1km erz= 2.5km
nr= 11 gap=153 rms=0.49
Locality: Tállya
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	6.6	337	Pg	9:35:50.10	0.19
			Sg	35:50.71	-0.11
KECS	64.3	295	Pg	9:35:59.87	-0.34
			Sg	36:08.32	-0.84
TRPA	94.9	97	Pg	9:36:05.87	0.18
			Sg	36:18.49	-0.42
KOLS	106.6	44	Pg	9:36:07.96	0.19
PSZ	108.8	251	Pg	9:36:09.03	0.86
			Sg	36:21.85	-1.48
NIE	148.7	332	Sn	9:36:34.17	-0.09
LANS	167.0	307	Sn	9:36:38.39	0.07

398.

2019-05-10 time: 9:57:18.68 UTC ML= 1.3
lat: 47.308N lon: 18.329E h= 0.0 km
erh= 1.6km erz= 2.1km
nr= 14 gap=109 rms=0.51
Locality: Magyaralmás
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	8.0	320	PgU	9:57:20.10	0.00
			Sg	57:20.84	-0.37
PKSG	10.4	27	PgU	9:57:20.68	0.15
			Sg	57:22.57	0.59
PKST	22.9	256	Pg	9:57:22.91	0.13
			Sg	57:26.44	0.47
A336	114.4	26	Sg	9:57:54.35	-0.70
MORH	123.8	169	Sg	9:57:57.48	-0.56
PKSM	124.2	169	Sg	9:57:57.48	-0.69
PSZ	135.9	60	Pn	9:57:43.68	1.03
			Sn	58:00.95	-0.40
KOVH	136.8	187	Sn	9:58:01.35	-0.20
VYHS	137.2	16	Pn	9:57:42.93	0.11
			Sn	58:00.22	-1.42

399.

2019-05-10 time: 10:03:48.60 UTC ML= 1.5
lat: 48.610N lon: 20.786E h= 0.0 km
erh= 2.0km erz= 1.4km
nr= 9 gap=207 rms=0.76
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	26.3	238	Pg	10:03:53.88	0.59
			Sg	03:56.63	-0.32
PSZ	101.4	221	Pg	10:04:07.52	0.81
			Sg	04:20.24	-0.60
A336	138.8	252	Sn	10:04:30.37	-1.54
TRPA	140.4	112	Pn	10:04:13.37	0.24
			Sn	04:30.93	-1.34
VYHS	144.6	265	Pn	10:04:14.13	0.48
			Sn	04:32.35	-0.85

Hypocenter Parameters

400.

2019-05-10 time: 11:37:07.29 UTC ML= 1.3
lat: 47.845N lon: 19.121E h= 0.0 km
erh= 1.1km erz= 384km
nr= 9 gap=112 rms=0.30
Locality: Szendehely
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PENC	13.4	117	Pg	11:37:09.88			0.19
			Sg		37:11.56		0.00
A336	44.2	348	Pg	11:37:15.53			0.36
			Sg		37:21.18		-0.15
PSZ	58.4	82	Sg	11:37:25.65			-0.21
PKSG	74.5	227	Sg	11:37:30.44			-0.52
VYHS	75.3	344	Pg	11:37:20.87			0.14
			Sg		37:29.93		-1.28
PKST	104.5	231	Pg	11:37:25.86			-0.10

401.

2019-05-10 time: 17:01:35.23 UTC ML= 1.6
lat: 48.567N lon: 20.792E h= 0.0 km
erh= 3.0km erz= 3.0km
nr= 14 gap=153 rms=0.77
Locality: Tornanádaska
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	24.5	248	Pg	17:01:40.12			0.52
			Sg		01:42.55		-0.45
PSZ	98.2	223	Pg	17:01:53.26			0.50
			Sg		02:06.94		0.50
STHS	100.1	19	ePg	17:01:52.60			-0.51
NIE	101.0	340	Pg	17:01:54.63			1.36
			Sg		02:06.82		-0.52
KOLS	116.3	69	Sg	17:02:11.26			-0.94
LANS	116.8	304	Pg	17:01:55.59			-0.50
A336	137.8	254	Pn	17:01:59.92			0.47
			Sn		02:16.81		-1.53
VYHS	144.7	267	Pn	17:01:59.96			-0.34
			Sn		02:18.13		-1.73
OJC	197.4	339	Sn	17:02:32.26			0.69

402.

2019-05-11 time: 9:02:25.97 UTC ML= 0.4
lat: 46.264N lon: 18.208E h= 0.0 km
erh= 2.4km erz= 657km
nr= 9 gap=166 rms=0.50
Locality: Kisvaszar
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KOVH	21.2	203	Pg	9:02:30.40			0.65
			Sg		02:33.00		0.30
PKSM	33.9	100	Pg	9:02:32.08			0.05
			Sg		02:37.07		0.31
MORH	34.1	99	Pg	9:02:32.22			0.16
			Sg		02:36.79		-0.01
PKS9	36.4	9	Sg	9:02:36.81			-0.72
PKSV	41.8	175	Pg	9:02:33.00			-0.44
			Sg		02:37.65		-1.61

Földrengés paraméterek

403.

2019-05-11 time: 20:09:44.10 UTC ML= 0.5
lat: 47.370N lon: 18.248E h= 2.8 km
erh= 3.1km erz= 0.9km
nr= 6 gap=205 rms=0.10
Locality: Mór
Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	1.2	128	Pg	20:09:44.55			-0.10
			Sg		09:45.07		-0.01
PKSG	11.1	77	Pg	20:09:46.17			0.03
			Sg		09:47.86		0.13
PKST	20.3	233	Pg	20:09:47.69			-0.07
			Sg		09:50.87		0.25

404.

2019-05-13 time: 7:57:32.29 UTC ML= 1.5
lat: 48.600N lon: 20.713E h= 0.0 km
erh= 2.6km erz= 3.5km
nr= 8 gap=128 rms=0.45
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	21.2	232	Pg	7:57:36.54			0.45
ABAH	51.6	131	Pg	7:57:41.09			-0.42
			Sg		57:48.50		-0.20
LANS	109.9	304	Pg	7:57:52.14			0.22
			Sg		58:06.39		-0.84
KOLS	120.5	72	Sg	7:58:11.02			0.42
VYHS	139.1	265	Pn	7:57:57.02			0.35
			Sn		58:14.94		-0.74

405.

2019-05-13 time: 9:28:01.45 UTC ML= 0.8
lat: 47.218N lon: 18.267E h= 0.0 km
erh= 1.4km erz= 181km
nr= 6 gap=259 rms=0.12
Locality: Iszkkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	16.2	358	Pg	9:28:04.21			-0.13
			Sg		28:06.35		-0.24
PKST	18.2	285	Pg	9:28:04.72			0.02
			Sg		28:07.30		0.06
PKSG	21.5	26	Pg	9:28:05.39			0.10
			Sg		28:08.44		0.16

406.

2019-05-13 time: 9:38:13.88 UTC ML= 1.0
lat: 46.174N lon: 18.287E h= 0.0 km
erh= 1.2km erz= 214km
nr= 8 gap=204 rms=0.15
Locality: Zobákpusztá
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KOVH	17.4	236	Pg	9:38:16.83			-0.15
			Sg		38:19.68		0.28
PKSM	27.7	81	Pg	9:38:18.91			0.09
			Sg		38:22.58		-0.09
MORH	27.9	81	Pg	9:38:18.96			0.09
			Sg		38:22.78		0.01
PKSV	31.9	185	Pg	9:38:19.37			-0.21
			Sg		38:24.21		0.18

Földrengés paraméterek

407.

2019-05-14 time: 6:53:45.66 UTC ML= 1.4
lat: 47.324N lon: 18.424E h= 0.0 km
erh= 2.4km erz= 592km
nr= 8 gap=191 rms=0.42
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	8.0	342	PgU	6:53:47.17	0.09
			Sg	53:47.48	-0.72
CSKK	13.1	290	PgU	6:53:48.43	0.43
			Sg	53:50.26	0.43
PKST	30.4	256	Pg	6:53:51.06	-0.02
			Sg	53:54.23	-1.08
MORH	124.3	172	Sg	6:54:24.98	-0.19
PKSM	124.7	172	Sg	6:54:25.43	0.13

408.

2019-05-14 time: 9:21:57.47 UTC ML= 1.5
lat: 48.620N lon: 20.725E h= 0.0 km
erh= 2.3km erz= 4.4km
nr= 10 gap=130 rms=0.59
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.3	229	Pg	9:22:02.02	0.38
			Sg	22:04.47	-0.42
ABAH	52.4	133	Pg	9:22:07.14	0.31
			Sg	22:14.01	-0.12
PSZ	99.5	218	Pg	9:22:15.69	0.46
			Sg	22:28.16	-0.93
LANS	109.5	303	ePg	9:22:17.70	0.68
KOLS	119.0	73	Sg	9:22:34.12	-1.17
VYHS	140.2	264	ePn	9:22:21.50	-0.48
			eSn	22:39.80	-1.30

409.

2019-05-14 time: 11:52:17.88 UTC ML= 1.6
lat: 48.283N lon: 19.775E h= 0.0 km
erh= 4.6km erz= ***km
nr= 7 gap=181 rms=0.75
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	41.4	168	Pg	11:52:24.63	-0.65
			Sg	52:30.63	-0.43
A336	57.9	265	Pg	11:52:28.70	0.48
PENC	65.9	214	Sg	11:52:39.23	0.39
VYHS	73.4	289	Sg	11:52:40.56	-0.66
LANS	99.1	347	ePg	11:52:36.70	1.11
			eSg	52:47.30	-2.10

410.

2019-05-15 time: 8:02:01.85 UTC ML= 1.4
lat: 48.597N lon: 20.729E h= 0.0 km
erh= 2.8km erz= 3.8km
nr= 8 gap=128 rms=0.54
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	22.0	235	Pg	8:02:06.12	0.34

114

Hypocenter Parameters

			Sg	02:08.64	-0.21
ABAH	50.5	132	Pg	8:02:11.42	0.56
			Sg	02:16.74	-1.15
LANS	111.1	304	ePg	8:02:21.90	0.21
KOLS	119.5	72	Sg	8:02:39.13	-0.70
VYHS	140.3	265	Pn	8:02:26.56	0.19
			Sn	02:44.62	-0.88

411.

2019-05-15 time: 8:09:30.03 UTC ML= 1.8
lat: 48.331N lon: 19.025E h= 0.0 km
erh= 1.5km erz= 674km
nr= 18 gap= 61 rms=0.59
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
A336	11.0	190	Pg	8:09:32.39	0.40
			Sg	09:34.15	0.63
VYHS	22.9	322	PgU	8:09:34.25	0.13
			Sg	09:37.28	-0.04
A338	61.1	235	Sg	8:09:49.32	-0.12
PENC	63.0	162	Pg	8:09:41.53	0.25
			Sg	09:50.48	0.43
SRO	78.2	223	Sg	8:09:54.20	-0.69
PSZ	79.3	125	Pg	8:09:45.07	0.88
			Sg	09:54.74	-0.49
LANS	96.8	20	Pg	8:09:47.28	-0.04
KECS	109.5	81	Pg	8:09:49.31	-0.26
			Sg	10:03.21	-1.61
PKSG	114.7	204	Pg	8:09:50.69	0.19
			Sg	10:05.34	-1.13
CSKK	121.8	208	Pg	8:09:51.65	-0.13
			Sg	10:07.07	-1.68
MODS	129.6	272	ePg	8:09:53.80	0.62
			eSg	10:07.80	-3.43*

412.

2019-05-15 time: 8:48:01.37 UTC ML= 2.3
lat: 46.870N lon: 17.184E h= 0.0 km
erh= 4.1km erz= 729km
nr= 8 gap=258 rms=0.52
Locality: Vindornyafook
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
MPLH	42.9	39	Pg	8:48:09.31	0.28
			Sg	48:14.73	-0.28
TIH	54.1	87	Sg	8:48:18.36	-0.22
PKST	77.7	56	Sg	8:48:26.12	0.05
PKS9	89.4	111	Sg	8:48:31.33	1.54
CSKK	98.4	56	Sg	8:48:32.70	0.07
PKSG	108.4	58	Sg	8:48:35.38	-0.43
KOVH	111.8	141	Sg	8:48:36.20	-0.71

413.

2019-05-15 time: 9:00:58.93 UTC ML= 1.7
lat: 47.915N lon: 20.083E h= 0.0 km
erh= 2.5km erz= 3.0km
nr= 12 gap=141 rms=0.53
Locality: Paráđ
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	14.1	272	Pg	9:01:01.63	0.18
			Sg	01:03.92	0.50
PENC	61.6	257	Pg	9:01:09.87	-0.06
			Sg	01:17.97	-0.53
KECS	69.9	25	Sg	9:01:20.92	-0.23
A336	88.2	294	Pg	9:01:15.32	0.64

Hypocenter Parameters

Sg 01:26.92 -0.05
ABAH 96.0 64 Sg 9:01:29.11 -0.33
VYHS 112.9 305 Pg 9:01:19.44 0.35
Sg 01:31.76 -3.05
PKSG 139.8 245 Sn 9:01:41.07 -1.42
PKB2 151.9 205 Sn 9:01:44.89 -0.28

414.

2019-05-15 time: 9:32:44.18 UTC ML= 1.0
lat: 46.105N lon: 18.084E h= 0.0 km
erh= 1.9km erz= 388km
nr= 10 gap=224 rms=0.31
Locality: Kővágótóttós
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	2.2	148	PgU	9:32:44.73	0.15
			Sg	32:45.91	1.02
PKSV	27.4	152	Pg	9:32:49.01	-0.06
			Sg	32:52.59	-0.29
PKSM	44.6	75	Pg	9:32:51.88	-0.26
			Sg	32:58.16	-0.20
MORH	45.0	74	Pg	9:32:52.10	-0.10
			Sg	32:58.36	-0.10
PKS9	55.6	16	Pg	9:32:53.94	-0.16
PKB5	74.0	43	Pg	9:32:57.98	0.59

415.

2019-05-15 time: 12:45:34.29 UTC ML= 1.9
lat: 47.161N lon: 19.241E h= 0.0 km
erh= 6.6km erz= 947km
nr= 12 gap=150 rms=0.78
Locality: Bugyi
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKS7	14.1	206	Pg	12:45:36.93	0.13
			Sg	45:39.07	0.31
PKB1	54.1	219	Pg	12:45:44.18	0.24
PKB2	54.1	180	Pg	12:45:44.94	0.98
PENC	70.0	3	Pg	12:45:48.10	1.31
PKB5	73.8	211	Pg	12:45:47.79	0.32
			Sg	45:57.82	0.07
PKS9	97.2	229	Pg	12:45:51.43	-0.22
PSZ	97.5	30	Pg	12:45:51.13	-0.57
			Sg	46:04.41	-0.87
PKSM	115.1	203	Pg	12:45:53.37	-1.47
			Sg	46:09.70	-1.17

416.

2019-05-16 time: 7:08:53.74 UTC ML= 1.0
lat: 47.298N lon: 18.329E h= 0.0 km
erh= 0.9km erz= 270km
nr= 8 gap=145 rms=0.19
Locality: Magyaralmás
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	8.9	325	Pg	7:08:55.27	-0.06
			Sg	08:56.52	-0.05
PKSG	11.4	24	Pg	7:08:55.75	-0.03
			Sg	08:57.43	0.05
PKST	22.7	259	Pg	7:08:57.64	-0.15
			Sg	09:01.29	0.34
PKSM	123.1	169	Pg	7:09:15.96	0.24
			Sg	09:32.25	-0.61

Földrengés paraméterek

417.

2019-05-16 time: 9:27:43.44 UTC ML= 1.4
lat: 48.598N lon: 20.745E h= 0.0 km
erh= 0.7km erz= 1.9km
nr= 11 gap= 87 rms=0.22
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.0	236	Pg	9:27:47.60	0.06
			Sg	27:50.14	-0.60
ABAH	49.7	133	Pg	9:27:52.32	0.01
			Sg	27:59.23	0.00
STHS	98.1	22	Sg	9:28:14.51	-0.11
PSZ	98.5	220	Pg	9:28:01.16	0.14
			Sg	28:14.56	-0.17
LANS	112.0	303	Pg	9:28:03.52	0.08
KOLS	118.4	72	Sg	9:28:20.87	-0.20
VYHS	141.4	265	Pn	9:28:08.44	0.34
			Sn	28:25.86	-1.48*

418.

2019-05-16 time: 9:46:05.49 UTC ML= 1.1
lat: 47.231N lon: 18.269E h= 0.0 km
erh= 3.2km erz= 477km
nr= 8 gap=236 rms=0.34
Locality: Iszkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	14.7	357	Pg	9:46:07.97	-0.14
			Sg	46:09.97	-0.19
PKST	18.1	280	Pg	9:46:08.51	-0.20
			Sg	46:11.47	0.25
PKSG	20.1	27	Pg	9:46:08.76	-0.32
			Sg	46:12.38	0.50
MPLH	55.7	263	Pg	9:46:16.04	0.61
			Sg	46:22.91	-0.28

419.

2019-05-16 time: 10:08:00.09 UTC ML= 2.3
lat: 48.246N lon: 21.247E h= 0.0 km
erh= 1.9km erz= 2.2km
nr= 14 gap=152 rms=0.54
Locality: Tállya
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	5.6	354	Pg	10:08:01.37	0.29
			Sg	08:02.90	1.05
KECS	62.3	295	Pg	10:08:11.29	0.08
			Sg	08:18.94	-0.94
TRPA	96.9	98	Pg	10:08:17.66	0.26
			Sg	08:30.04	-0.86
PSZ	107.2	250	Pg	10:08:19.62	0.39
			Sg	08:33.28	-0.87
KOLS	107.5	45	Pg	10:08:19.60	0.31
			Sg	08:34.16	-0.11
STHS	130.2	360	ePg	10:08:22.30	-1.03
LANS	165.1	308	eSn	10:08:49.10	-0.16
A336	167.0	269	Sn	10:08:49.72	0.05
VYHS	180.7	279	Sn	10:08:53.19	0.47

Földrengés paraméterek

420.

2019-05-16 time: 10:24:12.38 UTC ML= 1.0
lat: 47.213N lon: 18.286E h= 0.0 km
erh= 1.8km erz= 625km
nr= 12 gap=119 rms=0.51
Locality: Iszkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	16.9	353	Pg	10:24:15.30	-0.09
			Sg	24:17.61	-0.13
PKST	19.8	285	Pg	10:24:15.61	-0.30
			Sg	24:18.39	-0.27
PKSG	21.4	22	Pg	10:24:16.16	-0.05
			Sg	24:19.02	-0.17
MPLH	56.8	265	Pg	10:24:23.24	0.72
			Pg	10:24:24.14	0.83
MORH	114.1	166	Pg	10:24:32.85	0.09
			Sg	24:47.39	-1.27
PKSM	114.5	166	Pg	10:24:32.78	-0.05
			Sg	24:47.39	-1.39

421.

2019-05-16 time: 10:39:36.22 UTC ML= 2.3
lat: 47.413N lon: 18.178E h= 10.8 km
erh= 1.1km erz= 0.9km
nr= 38 gap= 44 rms=0.57
Locality: Felsődobos
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	8.3	132	PgU	10:39:38.68	0.03
			Sg	39:40.22	-0.33
PKSG	16.2	98	PgU	10:39:39.68	-0.02
			Sg	39:41.99	-0.42
PKST	20.3	212	Pg	10:39:40.24	-0.08
			Sg	39:43.38	-0.13
SRO	45.7	13	Pg	10:39:45.21	0.61
			PgU	10:39:46.87	0.59
MPLH	55.3	241	Pg	39:53.17	-0.96
			Sg	10:39:47.33	0.10
A339	60.7	320	PgD	10:39:47.53	0.26
			PgU	39:55.31	-0.59
TIH	61.0	201	Pg	10:39:47.93	0.15
			Sg	39:55.33	-1.47
EGYH	63.9	270	Pg	10:39:47.89	0.03
			Sg	39:56.02	-0.91
BUD	64.3	83	Pg	10:39:48.41	-0.14
			Sg	10:39:51.42	0.08
A338	68.2	11	Pg	40:02.23	-0.91
			Sg	10:39:53.99	1.21
PKB1	84.0	146	PgU	10:39:52.67	-0.27
			Pg	10:39:54.63	0.42
PKS9	92.1	175	P*	40:07.28	-0.97
			S*	10:39:55.52	-0.07
PENC	93.0	63	Pn	40:09.19	-1.50
			Sn	10:39:57.80	0.18
PKB5	100.3	155	ePn	40:12.90	-1.41
			eSn	10:39:58.95	0.89
A336	110.0	34	Pn	10:40:14.80	-1.35
			Sn	10:39:59.17	0.13
MODS	126.3	328	PnU	40:15.15	-1.70
			Sn	10:39:59.20	0.11
VYHS	129.9	22	PnU	40:15.20	-1.73
			Sn	10:40:00.10	0.69
SMOL	134.6	335	Pn	10:40:03.52	0.51
			Pn	10:40:10.12	0.05
MORH	137.7	165	Pn		
PKSM	138.1	165			
PSZ	140.6	66			
PKSV	169.5	178			
KRUC	226.2	324			

Hypocenter Parameters

422.

2019-05-16 time: 10:53:18.37 UTC ML= 1.7
lat: 47.325N lon: 18.461E h= 0.0 km
erh= 1.4km erz= 3.9km
nr= 10 gap=115 rms=0.41
Locality: Pátka
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	9.1	324	Pg	10:53:20.02	0.02
			Sg	53:20.60	-0.67
CSKK	15.8	286	Pg	10:53:21.46	0.28
			Sg	53:23.34	-0.63
MORH	124.1	174	Pg	10:53:57.33	-0.48
			Sg	10:53:57.53	-0.41
PKSM	124.5	174	Pg	10:53:41.36	0.44
			Sg	53:57.98	-0.54
PSZ	126.3	59	Pg	10:53:42.50	0.52
			Sg	53:58.60	-1.80*
VYHS	133.0	12	ePn		
			eSn		

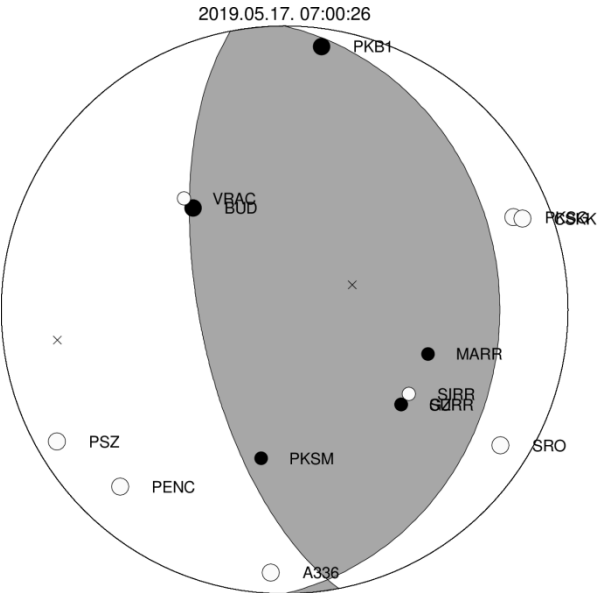
423.

2019-05-17 time: 7:00:26.54 UTC ML= 2.7
lat: 47.545N lon: 18.943E h= 11.0 km
erh= 0.9km erz= 0.8km
nr= 40 gap= 65 rms=0.45
Locality: Budakeszi
Comments: felt 4 EMS

sta	dist	azm	phase	hr mn sec	res
BUD	9.1	138	PgU	7:00:29.20	0.11
			Sg	00:30.70	-0.38
PENC	37.3	43	PgD	7:00:33.43	-0.06
			Sg	00:38.29	-0.62
PKSG	45.0	248	PgD	7:00:34.76	-0.04
			Sg	00:40.81	-0.44
CSKK	55.3	249	PgD	7:00:36.34	-0.26
			Sg	00:44.02	-0.43
SRO	55.9	302	PgD	7:00:36.82	0.11
			Pg	7:00:37.91	0.88
PKS7	57.7	163	Pg	00:45.31	0.09
			Sg	7:00:39.56	0.63
A338	68.5	320	Pg	00:48.30	-0.29
			Sg	7:00:40.33	-0.04
A336	76.7	3	PgD	7:00:40.83	-0.59
			PgD	7:00:40.83	-0.59
PSZ	82.6	60	PgD	7:00:42.18	0.28
			PgU	7:00:45.83	1.11
PKB1	85.3	188	P*	7:00:45.35	-0.01
			P*	7:00:45.67	0.19
A339	101.7	288	Pn	7:00:45.92	-0.60
			Pn	7:00:46.72	0.35
VYHS	105.8	356	Pn	7:00:46.82	-0.04
			Pn	7:00:46.82	-0.04
PKB5	106.8	188	Pn	7:00:50.56	-0.25
			Pn	7:00:50.56	-0.25
TIH	107.0	228	PnU	7:00:50.59	-0.28
			PnU	7:00:52.00	0.53
MPLH	113.9	249	ePn	01:09.90	-1.02
			eSn	7:00:51.95	0.41
PKS9	117.8	205	Pn	7:00:54.40	2.77
			Pn	7:00:54.40	2.77
MORH	149.5	189	Pn	7:00:53.53	-0.36
			Pn	7:00:53.63	-0.97
PKSM	150.0	189	Pn	7:00:58.10	3.14*
			ePn	01:18.90	1.78
MODS	154.8	307	ePn	7:00:57.54	0.47
			eSn	01:19.55	-1.33
KECS	155.4	48	Pn	7:01:03.17	-0.30
			Pn	7:01:04.16	-0.69
SMOL	156.1	314	ePn	7:01:11.14	-0.26*
			Pn	7:01:12.79	-0.70*
KOVH	174.2	202	Pn	7:01:18.73	-0.74*
			Pn		
SOP	179.9	275	Pn		
LANs	182.7	12	ePn		
			eSn		
RONA	199.7	275	Pn		
			Sn		
SIRR	251.0	124	PnD		
			PnD		
VRAC	262.1	318	PnD		
			PnD		
SURR	314.6	129	PnC		
			PnC		
MARR	331.4	107	PnC		
			PnC		
GZR	379.4	129	PnC		
			PnC		

Hypocenter Parameters

Földrengés paraméterek



424.

2019-05-17 time: 8:24:01.56 UTC ML= 1.2
lat: 46.131N lon: 18.058E h= 0.0 km
erh= 1.9km erz= 250km
nr= 7 gap=287 rms=0.17
Locality: Hetvehely
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	5.7	146	Pg	8:24:02.50	-0.08
			Sg	24:03.68	0.30
PKSV	30.9	151	Sg	8:24:11.11	-0.25
PKSM	45.9	79	Pg	8:24:09.76	0.00
			Sg	24:16.11	-0.05
MORH	46.2	78	Pg	8:24:10.01	0.20
			Sg	24:16.03	-0.22

425.

2019-05-17 time: 9:38:40.31 UTC ML= 0.6
lat: 47.180N lon: 18.295E h= 0.0 km
erh= 0.4km erz= 112km
nr= 7 gap=149 rms=0.07
Locality: Sárkeszi
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	20.5	353	Pg	9:38:44.05	0.07
			Sg	38:46.66	-0.18
PKST	21.6	294	Pg	9:38:44.15	-0.01
			Sg	38:47.22	0.05
PKSG	24.7	17	Pg	9:38:44.76	0.05
			Sg	38:48.12	-0.03
PKSM	110.8	166	Sg	9:39:15.48	-0.06

426.

2019-05-17 time: 10:08:00.36 UTC ML= 1.8
lat: 45.500N lon: 18.038E h= 1.4 km
erh= 1.8km erz= 1.2km
nr= 12 gap=287 rms=0.27
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	46.3	21	Pg	10:08:08.80	0.17

			Sg	08:15.02	-0.06
KOVH	65.6	4	Pg	10:08:12.01	-0.06
			Sg	08:21.23	0.02
PKSM	92.0	31	Pg	10:08:16.53	-0.25
			Sg	08:29.65	0.06
MORH	92.4	31	Pg	10:08:16.63	-0.24
			Sg	08:29.45	-0.30
PKB5	133.1	24	Sn	10:08:42.56	0.45
BEHE	145.6	318	Sn	10:08:44.75	-0.12
PKB1	154.2	22	Pn	10:08:27.29	0.85

427.

2019-05-17 time: 10:38:11.14 UTC ML= 1.6
lat: 47.324N lon: 18.461E h= 0.0 km
erh= 2.7km erz= 560km
nr= 8 gap=208 rms=0.41
Locality: Pátka
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	9.2	325	Pg	10:38:12.87	0.08
			Sg	38:13.40	-0.68
CSKK	15.7	286	Pg	10:38:14.25	0.30
			Sg	38:15.89	-0.26
PKST	33.0	257	Pg	10:38:17.54	0.50
			Sg	38:20.81	-0.83
MORH	123.9	173	Sg	10:38:50.51	-0.03
PKSM	124.3	174	Sg	10:38:50.51	-0.16

428.

2019-05-17 time: 11:49:04.70 UTC ML= 1.5
lat: 47.701N lon: 18.547E h= 0.0 km
erh= 1.3km erz= 670km
nr= 17 gap= 75 rms=0.59
Locality: Bajót
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
SRO	21.5	305	Pg	11:49:08.93	0.40
			Sg	49:12.30	0.78
PKSG	36.4	199	Pg	11:49:11.54	0.35
			Sg	49:15.76	-0.50
A338	37.8	337	Sg	11:49:17.21	0.50
BUD	43.3	124	Sg	11:49:19.01	0.55
CSKK	43.4	210	Pg	11:49:13.28	0.84
			Sg	49:18.67	0.19
PENC	56.0	80	Sg	11:49:22.32	-0.18
PKST	62.5	218	Sg	11:49:24.74	0.16
A336	68.1	30	Sg	11:49:25.60	-0.74
VYHS	90.7	14	Pg	11:49:20.79	-0.11
			Sg	49:32.94	-0.59
MPLH	96.2	232	Sg	11:49:34.52	-0.77
EGYH	96.7	251	Sg	11:49:34.34	-1.11
MODS	120.6	308	ePg	11:49:25.40	-0.83
			eSg	49:40.30	-2.73*

429.

2019-05-17 time: 13:05:14.42 UTC ML= 1.6
lat: 45.847N lon: 17.365E h= 14.0 km
erh= 2.9km erz= 1.3km
nr= 11 gap=241 rms=0.33
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	62.9	65	Pg	13:05:26.30	0.37
			Sg	05:35.11	0.20
PKSV	69.0	86	Pg	13:05:26.76	-0.24
			Sg	05:35.98	-0.83
BEHE	82.9	327	Sg	13:05:40.19	-0.95

Földrengés paraméterek

PKSM 106.8 68	Pn	13:05:32.96	-0.02
	Sn	05:47.30	-0.16
MORH 107.2 68	Pn	13:05:33.26	0.23
	Sn	05:47.44	-0.10

430.

2019-05-18 time: 1:30:23.86 UTC ML= 1.1
lat: 47.651N lon: 18.451E h= 10.0 km
erh= 2.1km erz= 2.3km
nr= 19 gap=107 rms=0.74
Locality: Tardosbánya
Comments:

sta	dist	azm	phase	hr mn sec	res
SRO 20.8 330			Pg	1:30:28.64	0.65
			Sg	30:32.09	0.88
PKSG 29.1 189			Pg	1:30:29.14	-0.22
			Sg	30:33.26	-0.39
CSKK 35.0 204			Pg	1:30:30.25	-0.12
			Sg	30:35.04	-0.40
BUD 46.9 113			Sg	1:30:38.46	-0.65
PKST 53.7 216			Pg	1:30:33.48	-0.14
			Sg	30:40.77	-0.45
A336 76.6 32			Pg	1:30:38.04	0.37
			Sg	30:47.60	-0.83
A337 82.5 323			Sg	1:30:48.05	-2.22
VYHS 98.1 17			Pg	1:30:42.21	0.74
			Sg	30:53.34	-1.86
PKB1 99.7 165			Pg	1:30:42.69	0.93
			Sg	30:54.93	-0.78
PKB5 119.3 170			Sn	1:30:59.85	-0.74
MORH 160.2 175			Sn	1:31:10.54	0.88
PKSM 160.6 175			Sn	1:31:10.70	0.95

431.

2019-05-18 time: 8:25:09.87 UTC ML= 1.7
lat: 48.594N lon: 20.764E h= 0.0 km
erh= 1.4km erz= 1.9km
nr= 16 gap= 87 rms=0.52
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS 24.0 239			Pg	8:25:14.57	0.41
			Sg	25:17.75	0.25
ABAH 48.3 133			Pg	8:25:19.22	0.72
			Sg	25:24.73	-0.50
STHS 97.9 21			ePg	8:25:27.30	-0.06
			eSg	25:41.00	0.00
PSZ 99.1 221			Pg	8:25:27.44	-0.13
			Sg	25:41.03	-0.34
LANS 113.5 303			Pg	8:25:30.27	0.14
KOLS 117.1 71			Sg	8:25:46.66	-0.44
A336 136.7 253			Pn	8:25:34.10	0.15
			Sn	25:51.16	-1.57
TRPA 141.3 111			Sn	8:25:51.41	-2.33
PENC 141.9 231			Pn	8:25:34.61	0.01
VYHS 142.8 266			Pn	8:25:35.07	0.36
			Sn	25:52.74	-1.35

432.

2019-05-19 time: 11:46:18.95 UTC ML= 1.8
lat: 45.687N lon: 17.881E h= 5.7 km
erh= 2.1km erz= 1.9km
nr= 22 gap= 96 rms=0.63
Locality: Croatia
Comments:

118

Hypocenter Parameters

sta	dist	azm	phase	hr mn sec	res
PKSV 36.5 52			Pg	11:46:26.14	0.59
			Sg	46:31.08	0.38
KOVH 47.7 21			Pg	11:46:27.87	0.34
			Sg	46:33.70	-0.53
PKSM 82.9 45			Pg	11:46:33.56	-0.23
			Sg	46:44.27	-1.10
MORH 83.4 45			Pg	11:46:33.57	-0.30
			Sg	46:44.16	-1.36
PKS9 104.7 17			Pg	11:46:38.35	0.69
			Sg	46:51.93	-0.33
BLY 117.8 208			Pn	11:46:39.55	-0.38
			Sn	46:54.16	-2.15
PKB5 120.6 33			Pn	11:46:40.71	0.42
			Sn	46:56.08	-0.86
PKB1 140.8 30			Pn	11:46:43.54	0.74
			Sn	47:01.76	0.35
PTJ 151.4 279			Sn	11:47:03.09	-0.67
FRGS 163.0 112			Sn	11:47:07.21	0.86
CRES 189.2 275			Sn	11:47:13.18	1.01

433.

2019-05-19 time: 15:50:53.06 UTC ML= 1.2
lat: 48.644N lon: 19.450E h= 5.2 km
erh= 1.0km erz=20.3km
nr= 9 gap=112 rms=0.78
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr mn sec	res
VYHS 48.3 250			Pg	15:51:01.78	0.05
			Sg	51:07.14	-1.35
LANS 56.3 1			Pg	15:51:03.52	0.35
			Sg	51:09.95	-1.10
A336 56.6 216			Pg	15:51:04.08	0.88
			Sg	51:10.51	-0.61
KECS 78.5 103			Pg	15:51:08.04	0.93
			Sg	51:17.16	-0.91
PSZ 87.2 158			Sg	15:51:20.21	-0.61

434.

2019-05-19 time: 18:53:13.55 UTC ML= 1.0
lat: 48.652N lon: 19.424E h= 3.8 km
erh= 1.1km erz=23.5km
nr= 9 gap=115 rms=0.64
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr mn sec	res
VYHS 46.8 248			Pg	18:53:21.99	0.05
			Sg	53:27.37	-1.11
LANS 55.6 3			Pg	18:53:23.91	0.41
			Sg	53:30.32	-0.94
A336 56.2 214			Pg	18:53:24.05	0.45
			Sg	53:30.67	-0.77
KECS 80.6 103			Pg	18:53:28.28	0.33
PSZ 88.7 157			Pg	18:53:30.02	0.61
			Sg	53:40.44	-1.33

435.

2019-05-19 time: 21:34:43.68 UTC ML= 1.9
lat: 46.442N lon: 18.965E h= 0.3 km
erh= 2.1km erz= 116km
nr= 11 gap=191 rms=0.38
Locality: Fajsz
Comments:

sta	dist	azm	phase	hr mn sec	res
PKB3 17.8 96			Pg	21:34:47.11	0.25

Hypocenter Parameters

			Sg	34:48.86	-0.48
PKB5	24.5	314	Pg	21:34:48.24	0.19
			Sg	34:51.10	-0.36
PKB2	33.5	39	Pg	21:34:49.58	-0.08
PKB1	40.3	341	Pg	21:34:51.34	0.46
			Sg	34:55.80	-0.70
PKS6	49.3	69	Pg	21:34:51.96	-0.52
PKS9	55.1	287	Pg	21:34:53.73	0.21
			Sg	35:00.70	-0.49
PKS7	69.0	13	Pg	21:34:56.44	0.44

436.

2019-05-20 time: 8:42:03.82 UTC ML= 1.5
lat: 48.618N lon: 20.763E h= 0.0 km
erh= 2.2km erz= 2.4km
nr= 9 gap=147 rms=0.35
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	25.4	234	Pg	8:42:08.27	-0.09
			Sg	42:11.86	-0.04
PSZ	101.1	220	Pg	8:42:22.15	0.28
			Sg	42:35.18	-0.78
LANS	111.9	302	Pg	8:42:23.90	0.09
KOLS	116.4	72	Sg	8:42:40.43	-0.38
A336	137.4	252	Pn	8:42:28.25	0.26
VYHS	142.9	264	Pn	8:42:28.97	0.29
			Sn	42:47.02	-1.04

437.

2019-05-20 time: 9:37:59.14 UTC ML= 0.8
lat: 47.197N lon: 18.294E h= 0.0 km
erh= 0.4km erz=49.3km
nr= 6 gap=271 rms=0.03
Locality: Székesfehérvár
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	18.6	352	Pg	9:38:02.50	0.03
			Sg	38:05.04	-0.02
PKST	20.9	289	Pg	9:38:02.84	-0.03
			Sg	38:05.76	-0.01
PKSG	22.8	19	Pg	9:38:03.25	0.03
			Sg	38:06.34	-0.06

438.

2019-05-20 time: 10:09:13.81 UTC ML= 2.0
lat: 46.998N lon: 22.263E h= 0.0 km
erh= 3.7km erz= 4.3km
nr= 9 gap= 93 rms=0.68
Locality: Romania
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
DRGR	41.2	124	Pg	10:09:21.59	0.42
			Sg	09:26.32	-0.59
TRPA	127.6	9	Sg	10:09:52.48	-1.88
AMBH	137.9	239	Sn	10:09:56.73	-0.21
ARCR	159.2	87	Pn	10:09:41.64	0.94
			Sn	10:00.90	-0.77
BZS	161.4	198	Pn	10:09:41.05	0.07
			Sn	10:01.53	-0.63
ABAH	163.5	332	Pn	10:09:41.55	0.32

Földrengés paraméterek

439.

2019-05-21 time: 7:20:21.26 UTC ML= 1.3
lat: 47.331N lon: 18.423E h= 0.0 km
erh= 2.0km erz= 3.8km
nr= 9 gap=159 rms=0.39
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	7.1	340	PgU	7:20:22.81	0.27
			Sg	20:23.08	-0.46
CSKK	12.8	286	Pg	7:20:24.05	0.51
PKST	30.5	255	Pg	7:20:26.59	-0.11
			Sg	20:30.38	-0.57
MORH	125.2	172	Sg	7:21:00.91	-0.14
PKSM	125.6	172	Sg	7:21:01.29	0.11
VYHS	132.9	13	Pn	7:20:44.89	0.02
			Sn	21:01.50	-1.78

440.

2019-05-21 time: 8:15:13.39 UTC ML= 1.7
lat: 48.617N lon: 20.730E h= 0.0 km
erh= 4.9km erz= 971km
nr= 5 gap=191 rms=0.45
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.4	230	Pg	8:15:17.90	0.33
ABAH	51.9	133	Pg	8:15:22.47	-0.20
PSZ	99.4	219	Sg	8:15:44.36	-0.64
LANS	109.9	303	Pg	8:15:33.52	0.50
			Sg	15:47.65	-0.68

441.

2019-05-21 time: 8:34:00.81 UTC ML= 1.9
lat: 48.543N lon: 19.366E h= 0.0 km
erh= 1.7km erz= 2.5km
nr= 12 gap=104 rms=0.52
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	39.5	262	Pg	8:34:08.31	0.44
			Sg	34:12.89	-0.48
A336	43.9	218	Pg	8:34:09.02	0.38
			Sg	34:14.62	-0.14
LANS	68.0	6	Sg	8:34:22.00	-0.41
PSZ	79.8	151	Sg	8:34:26.12	-0.04
KECS	83.0	95	Pg	8:34:15.84	0.22
			Sg	34:25.96	-1.22
PENC	83.9	184	Sg	8:34:26.65	-0.83
ABAH	141.4	101	Pn	8:34:26.27	0.81
			Sn	34:44.39	-0.31
PKSG	147.3	210	Sn	8:34:45.56	-0.45

442.

2019-05-21 time: 12:23:11.47 UTC ML= 1.5
lat: 48.579N lon: 18.809E h= 0.0 km
erh= 8.5km erz= 8.0km
nr= 9 gap=284 rms=1.08
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	9.7	168	Pg	12:23:14.38	1.18
			Sg	23:15.88	1.32

Földrengés paraméterek

A336	41.0	160	Pg	12:23:19.74	0.95
			Sg	23:24.34	-0.16
A338	71.3	208	Sg	12:23:33.22	-0.91
PENC	94.5	158	Sg	12:23:41.44	-0.07
PSZ	109.1	132	Pg	12:23:30.13	-0.82
			Sg	23:44.04	-2.11
PKSG	135.7	193	Sn	12:23:52.73	-1.37

443.

2019-05-21 time: 23:36:49.52 UTC ML= 1.6
lat: 47.546N lon: 18.934E h= 10.0 km
erh= 1.1km erz= 1.0km
nr= 37 gap= 71 rms=0.57
Locality: Budakeszi
Comments:

sta	dist	azm	phase	hr mn sec	res
BUD	9.6	135	PgU	23:36:52.12	0.12
			Sg	36:53.82	-0.11
PENC	37.7	44	PgD	23:36:56.53	0.04
PKSG	44.4	247	Pg	23:36:57.88	0.23
			Sg	37:03.32	-0.66
CSKK	54.7	248	Pg	23:36:59.58	0.13
			Sg	37:07.02	-0.17
SRO	55.3	303	Sg	23:37:06.73	-0.66
A338	68.0	320	PgU	23:37:02.74	0.94
			Sg	37:10.50	-0.87
PKST	75.0	245	Pg	23:37:03.35	0.31
A336	76.6	4	Pg	23:37:03.40	0.08
			Sg	37:12.38	-1.70
PSZ	83.1	60	Pg	23:37:04.26	-0.21
			Sg	37:14.83	-1.30
PKB1	85.3	187	Pg	23:37:05.50	0.64
			Sg	37:15.89	-0.93
PKB2	99.6	166	Pg	23:37:07.49	0.09
			Sg	37:19.92	-1.43
VYHS	105.7	356	P*	23:37:08.50	0.09
			S*	37:20.40	-2.75*
PKB5	106.7	188	P*	23:37:08.69	0.12
			S*	37:21.46	-1.97
PKS9	117.6	205	Pn	23:37:10.18	0.24
PKS2	119.0	170	Pn	23:37:10.25	0.13
			Sn	37:25.98	-0.20
PKB3	126.3	171	Pn	23:37:10.75	-0.27
			Sn	37:27.69	-0.10
MORH	149.5	189	Sn	23:37:33.18	0.24
PKSM	149.9	189	Pn	23:37:13.70	-0.27
			Sn	37:33.12	0.08
KECS	155.8	48	ePn	23:37:16.40	1.70
			eSn	37:36.70	2.36*
KOVH	174.1	201	Pn	23:37:16.83	-0.15
ABAH	191.5	64	Pn	23:37:19.79	0.64

444.

2019-05-22 time: 7:33:40.22 UTC ML= 1.5
lat: 47.336N lon: 18.479E h= 0.0 km
erh= 2.3km erz= 5.6km
nr= 8 gap=163 rms=0.34
Locality: Lovasberény
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	9.1	313	PgU	7:33:42.08	0.23
			Sg	33:42.71	-0.40
CSKK	16.8	280	Pg	7:33:43.53	0.31
			Sg	33:44.93	-0.63
PKST	34.7	256	Pg	7:33:46.48	0.06
PKSM	125.6	174	Pg	7:34:02.69	0.03
			Sg	34:20.15	0.00
VYHS	131.5	12	Sn	7:34:20.12	-1.80

Hypocenter Parameters

445.

2019-05-22 time: 9:06:42.00 UTC ML= 0.9
lat: 47.215N lon: 18.278E h= 0.0 km
erh= 3.0km erz= 434km
nr= 7 gap=242 rms=0.28
Locality: Iszkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	16.5	355	Pg	9:06:45.01	0.06
			Sg	06:47.55	0.30
PKST	19.1	285	Pg	9:06:45.04	-0.37
			Sg	06:47.86	-0.21
PKSG	21.4	23	Pg	9:06:45.63	-0.19
			Sg	06:48.85	0.04
MPLH	56.2	265	Pg	9:06:52.50	0.47

446.

2019-05-22 time: 10:08:03.38 UTC ML= 1.7
lat: 48.416N lon: 19.129E h= 0.0 km
erh= 2.1km erz= 5.5km
nr= 14 gap= 85 rms=0.76
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
A336	22.5	205	Pg	10:08:08.30	0.91
			Sg	08:11.18	0.66
VYHS	23.3	292	Pg	10:08:07.46	-0.08
			Sg	08:10.20	-0.59
PENC	70.4	171	Pg	10:08:16.26	0.30
			Sg	08:25.57	-0.20
PSZ	79.4	134	Pg	10:08:18.31	0.75
			Sg	08:28.61	-0.01
LANS	85.4	17	Pg	10:08:19.33	0.70
KECS	100.7	86	Pg	10:08:20.65	-0.70
			Sg	08:34.09	-1.29
PKSG	126.5	206	Pg	10:08:25.84	-0.13
			Sg	08:41.42	-2.17
CSKK	133.8	209	Sn	10:08:43.75	-1.85

447.

2019-05-22 time: 10:25:23.26 UTC ML= 1.5
lat: 47.512N lon: 18.589E h= 0.0 km
erh= 2.7km erz= 2.6km
nr= 9 gap=169 rms=0.72
Locality: Óbarok
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	20.0	228	Pg	10:25:27.78	0.95
			Sg	25:30.03	0.42
CSKK	29.7	236	Pg	10:25:28.78	0.21
			Sg	25:32.36	-0.35
PKST	50.4	236	Pg	10:25:38.62	-0.66
VYHS	110.8	10	Sg	10:25:43.51	0.47
			Sg	25:57.44	-1.03
MORH	144.1	178	Sn	10:26:06.67	-1.09
PKSM	144.5	178	Sn	10:26:06.67	-1.19

448.

2019-05-23 time: 9:13:26.25 UTC ML= 1.0
lat: 46.169N lon: 18.288E h= 0.0 km
erh= 1.9km erz= 361km
nr= 8 gap=201 rms=0.28
Locality: Zobákpusztá
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	17.1	238	Pg	9:13:29.32	0.02

Hypocenter Parameters

			Sg	13:30.65	-1.04
PKSM	27.7	80	Pg	9:13:31.21	0.02
			Sg	13:35.28	0.24
MORH	28.0	79	Pg	9:13:31.26	0.02
			Sg	13:34.57	-0.57
PKSV	31.3	185	Pg	9:13:31.94	0.10
			Sg	13:36.57	0.36

449.

2019-05-24 time: 8:08:28.10 UTC ML= 1.2
lat: 46.110N lon: 18.012E h= 0.0 km
erh= 3.9km erz= 543km
nr= 7 gap=263 rms=0.36
Locality: Bükkösd
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	7.2	109	Pg	8:08:29.17	-0.21
			Sg	08:30.64	0.26
PKSV	30.8	143	Pg	8:08:33.64	0.04
			Sg	08:38.22	0.33
PKSM	49.9	77	Pg	8:08:36.90	-0.11
			Sg	08:42.96	-1.01
PKB5	77.6	46	Sg	8:08:53.37	0.62

450.

2019-05-24 time: 8:37:07.86 UTC ML= 2.2
lat: 48.283N lon: 21.277E h= 0.0 km
erh= 6.8km erz= 5.9km
nr= 6 gap=203 rms=0.84
Locality: Sima
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	3.2	298	Pg	8:37:09.17	0.74
			Sg	37:10.03	1.16
KECS	62.7	291	Sg	8:37:27.44	-0.36
KOLS	103.1	45	Sg	8:37:39.70	-0.94
PSZ	110.7	249	Sg	8:37:41.79	-1.25
A336	169.2	268	Sn	8:37:57.82	-0.13

451.

2019-05-24 time: 9:22:33.51 UTC ML= 1.0
lat: 47.192N lon: 18.307E h= 0.0 km
erh= 3.1km erz= 2.6km
nr= 9 gap=234 rms=0.41
Locality: Székesfehérvár
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	19.3	350	Pg	9:22:36.98	0.01
			Sg	22:39.30	-0.36
PKST	21.9	290	Pg	9:22:37.31	-0.12
			Sg	22:40.16	-0.33
PKSG	23.1	16	Pg	9:22:37.82	0.18
			Sg	22:41.23	0.37
PSZ	144.2	56	Sn	9:23:17.23	-0.81
VYHS	150.1	15	Pn	9:23:00.13	0.87
			Sn	23:18.91	-0.43

452.

2019-05-24 time: 18:31:22.44 UTC ML= 1.1
lat: 47.832N lon: 18.656E h= 10.0 km
erh= 6.2km erz=19.7km
nr= 10 gap=172 rms=0.70
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr mn sec	res
SRO	25.7	265	Pg	18:31:28.29	0.92

Földrengés paraméterek

			Sg	31:30.87	-0.34
A336	51.4	30	PgD	18:31:32.34	0.54
			Sg	31:38.75	-0.34
PKSG	52.9	202	Pg	18:31:31.41	-0.64
CSKK	60.0	210	Pg	18:31:33.84	0.53
			Sg	31:41.29	-0.49
VYHS	74.8	10	Pg	18:31:36.26	0.34
			Sg	31:44.86	-1.57
PKST	79.0	216	Sg	18:31:46.68	-1.09

453.

2019-05-25 time: 0:57:10.16 UTC ML= 1.2
lat: 47.833N lon: 18.640E h= 14.4 km
erh= 1.7km erz= 1.5km
nr= 20 gap=105 rms=0.63
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr mn sec	res
SRO	24.6	265	Pg	0:57:16.00	0.75
			Sg	57:18.31	-0.91
A338	29.6	313	Pg	0:57:16.58	0.55
			Sg	57:20.80	0.18
PENC	48.3	96	Sg	0:57:25.87	-0.29
A336	52.0	31	Pg	0:57:19.79	0.01
			Sg	57:26.15	-1.14
PKSG	52.5	201	Pg	0:57:20.12	0.25
			Sg	57:26.90	-0.55
CSKK	59.5	209	Pg	0:57:21.26	0.17
			Sg	57:28.90	-0.72
VYHS	75.0	11	Pg	0:57:23.77	-0.02
			Sg	57:32.42	-2.00
PKST	78.4	216	Sg	0:57:34.57	-0.93
PSZ	94.3	84	P*	0:57:27.80	0.90
EGYH	108.7	245	Pn	0:57:29.65	0.75
			Sn	57:43.11	-0.41
MPLH	110.9	228	Sn	0:57:43.53	-0.49
MODS	118.0	301	ePn	0:57:29.30	-0.76
			eSn	57:46.00	0.41

454.

2019-05-25 time: 17:49:14.91 UTC ML=-0.2
lat: 48.263N lon: 18.971E h= 10.0 km
erh= 0.4km erz= 0.5km
nr= 5 gap=169 rms=0.18
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr mn sec	res
A336	3.9	148	Pg	17:49:16.95	0.13
			Sg	49:18.09	-0.23
VYHS	27.6	339	Pg	17:49:20.33	0.18
			Sg	49:23.98	-0.27
A338	53.6	239	Sg	17:49:32.13	-0.13

455.

2019-05-27 time: 8:23:14.06 UTC ML= 1.6
lat: 48.723N lon: 18.806E h= 5.4 km
erh= 7.2km erz= 8.1km
nr= 8 gap=147 rms=1.07
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr mn sec	res
VYHS	25.5	175	Pg	8:23:19.55	0.82
			Sg	23:22.02	-0.34
A336	56.3	165	Pg	8:23:24.77	0.61
			Sg	23:29.95	-2.09
LANS	67.9	46	Sg	8:23:34.27	-1.45
KECS	126.7	102	eSn	8:23:55.40	1.93
MORC	149.0	322	Pn	8:23:39.52	0.53
			Sn	23:57.15	-1.28

Földrengés paraméterek

456.

2019-05-27 time: 9:57:23.92 UTC ML= 1.7
lat: 47.861N lon: 19.154E h= 0.0 km
erh= 1.4km erz= 235km
nr= 6 gap=212 rms=0.14
Locality: Nőtincs
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PENC	12.4	130	Pg	9:57:26.17			0.04
			Sg	57:27.63			-0.22
A336	42.9	344	Pg	9:57:31.77			0.19
			Sg	57:37.37			-0.19
PSZ	55.7	83	Sg	9:57:41.61			-0.01
VYHS	74.2	341	Sg	9:57:47.44			-0.06

457.

2019-05-27 time: 9:57:56.06 UTC ML= 1.8
lat: 47.950N lon: 20.143E h= 0.0 km
erh= 6.0km erz= 732km
nr= 6 gap=195 rms=0.42
Locality: Szajla
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PSZ	18.9	259	Pg	9:57:59.36			-0.08
			Sg	58:01.90			-0.17
ABAH	90.2	65	Pg	9:58:11.95			-0.22
			Sg	58:24.91			0.17
A336	90.9	290	Pg	9:58:12.99			0.70
			Sg	58:24.19			-0.75

458.

2019-05-27 time: 12:55:29.41 UTC ML= 1.3
lat: 48.545N lon: 20.796E h= 0.0 km
erh= 2.8km erz= 5.6km
nr= 11 gap=123 rms=0.83
Locality: Bódvalenke
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	23.9	253	Pg	12:55:33.76			0.07
			Sg	55:36.44			-0.58
ABAH	43.0	130	Pg	12:55:37.48			0.39
			Sg	55:43.01			-0.06
STHS	102.3	19	ePg	12:55:47.40			-0.28
			eSg	55:59.60			-2.33
NIE	103.4	340	Pg	12:55:49.16			1.29
			Sg	56:01.78			-0.49
KOLS	116.9	68	Sg	12:56:05.45			-1.12
VYHS	144.9	268	Pn	12:55:55.12			0.61
			Sn	56:12.01			-2.08

459.

2019-05-28 time: 2:53:40.46 UTC ML= 0.1
lat: 47.380N lon: 18.139E h= 5.4 km
erh= 2.8km erz= 3.0km
nr= 6 gap=235 rms=0.07
Locality: Nagyveleg
Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	9.4	101	Pg	2:53:42.50			0.12
			Sg	53:43.80			-0.09
PKST	15.6	211	PgD	2:53:43.38			-0.02
			Sg	53:45.66			-0.03
PKSG	19.1	86	Pg	2:53:44.01			0.02
			Sg	53:46.64			-0.11

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Hypocenter Parameters

460.

2019-05-28 time: 7:13:30.31 UTC ML= 1.2
lat: 47.932N lon: 19.204E h= 0.0 km
erh= 3.0km erz= 698km
nr= 7 gap=176 rms=0.46
Locality: Bánk
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PENC	16.7	160	Pg	7:13:33.49			0.19
			Sg	13:34.78			-0.85
A336	36.8	335	Pg	7:13:37.21			0.32
			Sg	13:42.01			-0.01
PSZ	51.6	92	Pg	7:13:39.90			0.38
			Sg	13:46.46			-0.25
VYHS	68.2	336	Sg	7:13:50.99			-1.01

461.

2019-05-28 time: 8:32:49.74 UTC ML= 1.5
lat: 48.606N lon: 20.737E h= 0.0 km
erh= 2.1km erz= 3.5km
nr= 13 gap= 86 rms=0.68
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	23.0	234	Pg	8:32:54.63			0.77
			Sg	32:56.84			-0.23
ABAH	50.7	133	Pg	8:32:58.77			-0.02
			Sg	33:05.60			-0.26
STHS	97.5	22	ePg	8:33:06.40			-0.75
			eSg	33:19.70			-1.02
PSZ	98.8	219	Pg	8:33:07.76			0.38
			Sg	33:20.26			-0.88
LANS	111.1	303	Pg	8:33:10.12			0.55
KOLS	118.6	72	Sg	8:33:27.89			0.44
A336	135.2	252	Sn	8:33:30.25			-2.01
VYHS	140.9	265	Pn	8:33:14.94			0.60
			Sn	33:32.26			-1.27

462.

2019-05-28 time: 9:10:31.29 UTC ML= 1.1
lat: 47.191N lon: 18.292E h= 0.0 km
erh= 1.3km erz= 160km
nr= 6 gap=273 rms=0.10
Locality: Sárkeszi
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	19.3	353	Pg	9:10:34.70			-0.03
			Sg	10:37.16			-0.25
PKST	20.9	291	Pg	9:10:35.08			0.05
			Sg	10:37.92			-0.02
PKSG	23.5	19	Pg	9:10:35.48			-0.01
			Sg	10:38.97			0.20

463.

2019-05-28 time: 9:32:06.45 UTC ML= 1.5
lat: 47.887N lon: 19.758E h= 0.0 km
erh= 4.5km erz= ***km
nr= 6 gap=182 rms=0.62
Locality: Szurdokpüspöki
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PSZ	10.8	71	Pg	9:32:08.29			-0.09
			Sg	32:09.79			-0.09
PENC	37.2	253	Pg	9:32:13.81			0.71
			Sg	32:17.37			-0.92
KECS	85.6	39	Sg	9:32:32.69			-0.96

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VYHS 96.2 315 Sg 9:32:37.66 0.64

464.

2019-05-29 time: 7:51:06.60 UTC ML= 1.3
lat: 46.943N lon: 17.275E h= 0.0 km
erh= 2.6km erz= 3.1km
nr= 9 gap=149 rms=0.50
Locality: Sümegprága
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
MPLH	32.3	39	Pg	7:51:11.90	-0.46
			Sg	51:16.28	-0.57
EGYH	52.9	5	Sg	7:51:24.39	0.98
BEHE	65.0	216	Sg	7:51:27.34	0.08
PKST	67.5	59	Pg	7:51:18.47	-0.18
			Sg	51:28.85	0.80
KOVH	114.2	146	Sg	7:51:42.77	-0.12
MORH	132.5	128	Sn	7:51:48.26	-0.26
PKSM	132.6	128	Sn	7:51:49.20	0.66

465.

2019-05-29 time: 7:59:58.34 UTC ML= 1.4
lat: 48.612N lon: 20.758E h= 0.0 km
erh= 1.9km erz= 3.4km
nr= 12 gap= 85 rms=0.56
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.7	234	Pg	8:00:03.21	0.46
			Sg	00:05.54	-0.65
ABAH	50.1	135	Pg	8:00:07.94	0.66
			Sg	00:13.53	-0.72
STHS	96.2	22	ePg	8:00:14.90	-0.62
			eSg	00:28.60	-0.33
PSZ	100.3	220	Pg	8:00:16.48	0.23
			Sg	00:29.52	-0.71
LANS	112.0	302	Pg	8:00:18.92	0.59
KOLS	117.0	72	Sg	8:00:34.70	-0.81
VYHS	142.5	265	Pn	8:00:23.45	0.31
			Sn	00:41.87	-0.61

466.

2019-05-29 time: 8:28:57.96 UTC ML= 1.9
lat: 47.328N lon: 18.451E h= 0.0 km
erh= 2.2km erz= 4.0km
nr= 8 gap=161 rms=0.50
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	8.4	327	PgU	8:28:59.84	0.37
			Sg	29:00.13	-0.51
CSKK	14.9	285	Pg	8:29:01.19	0.56
			Sg	29:02.57	-0.14
PKST	32.5	256	Sg	8:29:07.74	-0.54
MORH	124.5	173	Sg	8:29:37.66	0.11
PKSM	125.0	173	Sg	8:29:37.59	-0.09
VYHS	132.8	13	Sn	8:29:38.75	-1.20

467.

2019-05-29 time: 8:59:02.53 UTC ML= 1.4
lat: 47.905N lon: 19.402E h= 0.0 km
erh= 2.0km erz= 788km
nr= 12 gap=120 rms=0.66
Locality: Becske
Comments: probably explosion

Földrengés paraméterek

sta	dist	azm	phase	hr mn sec	res
PENC	15.6	215	Pg	8:59:04.92	-0.40
			Sg	59:08.08	0.59
PSZ	36.9	88	Pg	8:59:09.25	0.13
			Sg	59:14.80	0.55
A336	47.2	321	Pg	8:59:10.83	-0.14
			Sg	59:16.93	-0.62
VYHS	77.8	327	Pg	8:59:18.17	1.74
			Sg	59:25.85	-1.42
PKSG	95.0	233	Sg	8:59:33.07	0.34
KECS	103.1	51	Sg	8:59:34.79	-0.51

468.

2019-05-29 time: 20:09:16.95 UTC ML= 0.0
lat: 47.346N lon: 18.200E h= 3.8 km
erh= 3.7km erz= 1.0km
nr= 6 gap=195 rms=0.07
Locality: Bodajk
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	5.0	67	Pg	20:09:18.00	-0.06
			Sg	09:18.96	0.02
PKSG	15.3	71	Pg	20:09:19.87	0.11
			Sg	09:21.93	-0.02
PKST	15.8	232	Pg	20:09:19.80	-0.05
			Sg	09:22.14	0.02

469.

2019-05-29 time: 22:52:19.20 UTC ML= 2.1
lat: 47.816N lon: 17.234E h= 10.0 km
erh= 1.2km erz= 1.2km
nr= 49 gap= 62 rms=0.74
Locality: Újrónafő
Comments:

sta	dist	azm	phase	hr mn sec	res
A339	31.6	87	Pg	22:52:26.11	1.00
			Sg	52:31.17	1.44
EGYH	45.0	171	Pg	22:52:27.81	0.39
SOP	52.8	254	Pg	22:52:29.17	0.38
			Sg	52:35.67	-0.61
MODS	62.1	3	ePg	22:52:30.60	0.18
			eSg	52:38.40	-0.78
A337	63.1	41	Sg	22:52:37.79	-1.71
RONA	71.5	260	Pg	22:52:32.29	0.20
			Sg	52:41.19	-0.96
MPLH	75.4	162	Pg	22:52:32.91	0.13
			Sg	52:42.86	-0.52
SRO	80.8	90	Pg	22:52:33.52	-0.22
			Sg	52:44.76	-0.32
PKST	86.4	136	Pg	22:52:35.07	0.34
			Sg	52:45.55	-1.30
CSKK	92.2	123	Pg	22:52:35.80	0.05
PKSG	98.9	118	Pg	22:52:36.06	-0.89
			Sg	52:49.19	-1.61
CONA	103.4	277	P*	22:52:37.90	0.16
			S*	52:51.25	-0.96
A336	139.6	71	Pn	22:52:42.43	0.08
VYHS	141.0	58	Pn	22:52:41.81	-0.72
			Sn	52:57.87	-2.87
ARSA	143.4	244	Pn	22:52:44.89	2.06
			Sn	53:02.24	0.98
KRUC	151.8	336	Pn	22:52:44.08	0.20
			Sn	53:02.70	-0.43
PKB1	164.5	134	Pn	22:52:45.94	0.48
			Sn	53:04.87	-1.07
VRAC	172.5	344	Pn	22:52:47.28	0.82
			Sn	53:07.44	-0.29
PKB5	177.1	140	Pn	22:52:47.24	0.20
PKB2	198.0	130	Pn	22:52:50.42	0.78
KOVH	203.1	161	Pn	22:52:50.06	-0.21
MORH	207.7	149	Pn	22:52:50.56	-0.29

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PKSM	208.0	149	Pn	22:52:50.60	-0.29
SOKA	209.3	233	Pn	22:52:51.22	0.17
			Sn	53:14.70	-1.19
PKS2	210.2	134	Pn	22:52:51.81	0.65
MORC	219.2	6	Sn	22:53:18.16	0.07
MOA	222.3	271	Pn	22:52:52.21	-0.45
			Sn	53:16.60	-2.17
PKS6	222.4	127	Pn	22:52:53.26	0.58
PKSV	227.9	160	Pn	22:52:54.19	0.82
OBKA	250.2	234	Pn	22:52:56.03	-0.11
			Sn	53:22.93	-2.03
KRLC	253.4	352	Pn	22:52:57.80	1.25
			Sn	53:25.56	-0.12
KBA	304.6	254	Pn	22:53:02.46	-0.47*
			Sn	53:36.14	-0.91*
BLY	341.0	181	Pn	22:53:08.09	0.62*

470.

2019-05-30 time: 0:25:03.86 UTC ML= 1.3
lat: 46.521N lon: 20.069E h= 14.4 km
erh= 2.2km erz= 1.0km
nr= 17 gap=258 rms=0.41
Locality: Ópusztaszer
Comments:

sta	dist	azm	phase	hr mn sec	res
PKS6	39.7	283	Pg	0:25:11.90	0.50
			Sg	25:17.97	0.70
PKSN	44.6	340	Sg	0:25:17.85	-0.91
PKB2	65.6	285	Sg	0:25:24.82	-0.40
PKS2	65.8	267	Pg	0:25:16.29	0.41
			Sg	25:25.25	-0.01
PKB3	68.0	261	Pg	0:25:16.12	-0.15
			Sg	25:25.28	-0.67
PKS7	90.8	310	S*	0:25:33.07	0.36
PKB1	102.0	287	Sn	0:25:35.48	-0.28
PKB5	102.6	275	Sn	0:25:35.62	-0.26
MORH	114.8	253	Pn	0:25:23.13	-0.24
			Sn	25:38.76	0.18
PKSM	115.1	253	Pn	0:25:23.25	-0.16
			Sn	25:38.74	0.08
PKS9	137.5	273	Sn	0:25:45.55	1.92*
PSZ	155.9	355	Sn	0:25:48.03	0.30

471.

2019-05-30 time: 7:43:20.01 UTC ML= 1.2
lat: 47.563N lon: 18.462E h= 0.0 km
erh= 0.9km erz= 165km
nr= 9 gap=181 rms=0.12
Locality: Tatabánya
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	19.8	196	Pg	7:43:23.51	-0.03
			Sg	43:26.41	0.10
CSKK	26.9	214	Pg	7:43:24.88	0.06
			Sg	43:28.44	-0.13
PKST	46.7	224	Pg	7:43:28.34	-0.01
VYHS	107.2	15	Pg	7:43:39.13	-0.01
			Sg	43:52.67	-1.40*

472.

2019-05-30 time: 8:05:29.25 UTC ML= 1.7
lat: 48.310N lon: 21.469E h= 0.0 km
erh= 3.8km erz= ***km
nr= 10 gap=146 rms=0.84
Locality: Tolcsva
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	17.1	265	Pg	8:05:33.32	1.02
			Sg	05:36.03	1.35

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KECS	75.4	285	Pg	8:05:42.43	-0.27
			Sg	05:52.25	-0.95
TRPA	82.0	104	Sg	8:05:54.29	-1.01
KOLS	91.2	41	Pg	8:05:46.20	0.66
			Sg	05:57.85	-0.40
STHS	124.2	352	ePg	8:05:51.10	-0.33
			eSg	06:09.10	0.37
PSZ	125.1	250	Sg	8:06:07.42	-1.58

473.

2019-05-30 time: 8:25:10.54 UTC ML= 1.2
lat: 45.881N lon: 18.385E h= 0.0 km
erh= 4.9km erz= 789km
nr= 8 gap=247 rms=0.57
Locality: Kisharsány
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSV	10.4	275	Pg	8:25:12.19	-0.20
			Sg	25:13.77	-0.06
KOVH	32.0	316	Sg	8:25:20.42	-0.28
PKSM	41.8	28	Pg	8:25:17.71	-0.29
			Sg	25:23.82	-0.01
MORH	42.3	28	Pg	8:25:17.78	-0.31
			Sg	25:23.89	-0.10
PKS9	79.0	354	Pg	8:25:26.15	1.51

474.

2019-05-30 time: 9:51:09.75 UTC ML= 2.0
lat: 48.550N lon: 20.773E h= 0.0 km
erh= 2.0km erz= 2.4km
nr= 18 gap= 94 rms=0.83
Locality: Komjáti
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	22.5	251	Pg	9:51:14.37	0.60
			Sg	51:16.83	-0.08
ABAH	44.6	129	Pg	9:51:18.39	0.68
			Sg	51:24.25	0.33
PSZ	95.9	223	Pg	9:51:27.35	0.48
			Sg	51:40.32	0.09
NIE	102.3	341	Pg	9:51:30.15	2.13
STHS	102.3	20	ePg	9:51:27.50	-0.52
			eSg	51:41.20	-1.07
LANS	116.8	305	Pg	9:51:29.97	-0.63
KOLS	118.3	69	Pg	9:51:31.42	0.56
			Sg	51:46.29	-1.05
A336	136.1	255	Pn	9:51:33.81	0.06
			Sn	51:51.28	-1.18
TRPA	139.0	110	Pn	9:51:33.91	-0.20
			Sn	51:50.95	-2.17
VYHS	143.2	268	Pn	9:51:34.69	0.05
			Sn	51:52.49	-1.57

475.

2019-05-30 time: 11:02:21.61 UTC ML= 1.3
lat: 45.556N lon: 17.746E h= 15.6 km
erh= 1.6km erz= 0.4km
nr= 8 gap=338 rms=0.09
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	54.0	47	Pg	11:02:31.53	-0.12
			Sg	02:39.59	0.11
KOVH	65.2	25	Pg	11:02:33.62	0.03
			Sg	02:42.85	-0.08
PKSM	100.7	44	Pn	11:02:39.35	0.14
			Sn	02:52.90	-0.04
MORH	101.2	44	Pn	11:02:39.22	-0.05
			Sn	02:53.08	0.03

Hypocenter Parameters

Földrengés paraméterek

476.

2019-05-30 time: 11:25:43.31 UTC ML= 1.2
lat: 47.566N lon: 18.434E h= 0.0 km
erh= 2.7km erz= 441km
nr= 7 gap=166 rms=0.29
Locality: Tatabánya
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	19.6	189	Pg	11:25:46.45	-0.36
			Sg	25:49.63	0.09
CSKK	26.0	210	Pg	11:25:47.76	-0.20
			Sg	25:52.07	0.48
PKB1	91.0	163	Sg	11:26:12.45	0.20
VYHS	107.5	16	Pg	11:26:02.81	0.30
			Sg	26:17.27	-0.21

477.

2019-05-31 time: 8:34:00.70 UTC ML= 1.8
lat: 48.492N lon: 18.762E h= 0.0 km
erh= 1.1km erz= 167km
nr= 6 gap=244 rms=0.10
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	5.5	88	Pg	8:34:01.53	-0.15
			Sg	34:02.56	0.11
A336	33.7	149	Pg	8:34:06.76	0.04
			Sg	34:11.31	-0.11
SRO	82.5	204	Pg	8:34:15.54	0.10
			Sg	34:26.92	-0.01

478.

2019-05-31 time: 8:41:03.49 UTC ML= 1.2
lat: 47.303N lon: 17.643E h= 0.0 km
erh= 0.2km erz=66.1km
nr= 7 gap=143 rms=0.04
Locality: Homokbödöge
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
MPLH	16.7	208	Pg	8:41:06.41	-0.05
			Sg	41:08.85	0.07
EGYH	26.7	298	Pg	8:41:08.23	-0.03
			Sg	41:12.03	0.05
PKST	30.0	99	Pg	8:41:08.88	0.03
			Sg	41:13.06	0.03
CSKK	47.2	82	Sg	8:41:18.44	-0.05

479.

2019-05-31 time: 9:54:02.95 UTC ML= 1.0
lat: 46.130N lon: 18.031E h= 0.0 km
erh= 3.5km erz= 394km
nr= 5 gap=292 rms=0.18
Locality: Hetvehely
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	7.1	131	PgU	9:54:04.29	0.08
			Sg	54:05.41	0.21
PKSV	31.9	148	Sg	9:54:12.61	-0.47
PKSM	48.0	79	Pg	9:54:11.54	0.02
			Sg	54:18.11	-0.09

480.

2019-05-31 time: 9:55:36.03 UTC ML= 1.1
lat: 46.132N lon: 17.984E h= 0.0 km
erh= 2.9km erz= 419km
nr= 8 gap=297 rms=0.30
Locality: Dinnyeberki
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	10.2	118	Pg	9:55:38.20	0.36
			Sg	55:39.63	0.37
PKSV	34.1	142	Pg	9:55:41.71	-0.40
			Sg	55:46.65	-0.21
PKSM	51.6	80	Pg	9:55:45.43	0.20
			Sg	55:52.09	-0.32
MORH	51.8	80	Pg	9:55:45.38	0.09
			Sg	55:52.15	-0.36

481.

2019-05-31 time: 10:43:22.63 UTC ML= 0.9
lat: 47.197N lon: 18.289E h= 0.0 km
erh= 2.4km erz= 303km
nr= 6 gap=270 rms=0.18
Locality: Sárkeszi
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	18.6	353	Pg	10:43:26.02	0.06
			Sg	43:28.80	0.25
PKST	20.5	290	Pg	10:43:26.43	0.14
			Sg	43:28.73	-0.41
PKSG	23.0	20	Pg	10:43:26.60	-0.14
			Sg	43:29.90	-0.05

482.

2019-06-03 time: 8:09:30.86 UTC ML= 2.0
lat: 47.294N lon: 17.645E h= 0.0 km
erh= 1.9km erz= 2.3km
nr= 16 gap=139 rms=0.66
Locality: Homokbödöge
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
MPLH	15.9	210	Pg	8:09:34.12	0.41
			Sg	09:36.55	0.63
EGYH	27.4	300	Pg	8:09:35.76	0.01
			Sg	09:39.85	0.29
PKST	29.7	97	Pg	8:09:36.52	0.35
			Sg	09:40.50	0.19
CSKK	47.1	81	Sg	8:09:45.75	-0.10
TIH	47.7	157	Pg	8:09:38.24	-1.13
			Sg	09:46.04	0.03
PKSG	57.4	79	Pg	8:09:41.37	0.26
KOVH	138.5	165	Pn	8:09:56.28	1.12
			Sn	10:13.09	-1.02
KOGS	141.9	229	Sn	8:10:13.48	-1.41
PKSM	142.3	148	Pn	8:09:55.73	0.08
			Sn	10:14.44	-0.54
CONA	151.5	298	Sn	8:10:15.20	-1.81

483.

2019-06-03 time: 9:48:02.91 UTC ML= 2.1
lat: 48.247N lon: 21.225E h= 0.0 km
erh= 1.5km erz= 2.9km
nr= 10 gap=152 rms=0.38
Locality: Táillya
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	5.6	11	Pg	9:48:04.05	0.14

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		Sg	48:05.02	0.33
KECS	60.8 296	Pg	9:48:13.95	0.19
		Sg	48:21.87	-0.36
TRPA	98.6 98	Pg	9:48:20.03	-0.48
PSZ	105.7 250	Sg	9:48:36.38	-0.12
KOLS	108.7 45	ePg	9:48:22.60	0.29
		eSg	48:37.60	0.15
STHS	130.1 1	eSg	9:48:43.00	-1.27
VYHS	179.1 279	Sn	9:48:55.81	0.62

484.

2019-06-03 time: 11:00:30.01 UTC ML= 1.9
lat: 48.882N lon: 20.931E h= 0.0 km
erh= 2.5km erz= 3.0km
nr= 16 gap= 66 rms=0.91
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	55.2	216	Pg	11:00:40.49			0.62
			Sg	00:47.56			0.00
STHS	63.6	21	ePg	11:00:41.90			0.53
			eSg	00:51.00			0.77
ABAH	69.1	161	Pg	11:00:42.62			0.27
			Sg	00:51.54			-0.43
NIE	74.8	323	Sg	11:00:52.68			-1.10
KOLS	98.5	87	Pg	11:00:48.12			0.51
LANS	111.1	286	Sg	11:01:03.88			-1.45
PSZ	131.9	216	Pn	11:00:54.08			0.59
			Sn	01:10.48			-1.32
TRPA	145.3	125	Pn	11:00:54.02			-1.14
			Sn	01:13.23			-1.55
A336	159.9	243	Sn	11:01:18.24			0.22
VYHS	160.2	254	Pn	11:00:59.04			2.02
			Sn	01:17.14			-0.95

485.

2019-06-04 time: 8:20:11.26 UTC ML= 1.7
lat: 47.874N lon: 19.843E h= 0.0 km
erh= 4.1km erz= ***km
nr= 10 gap=192 rms=0.78
Locality: Mátraszentimre
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PSZ	6.3	38	Pg	8:20:12.89			0.51
			Sg	20:14.43			1.18
PENC	43.0	258	Pg	8:20:18.55			-0.40
			Sg	20:25.41			0.47
A336	74.6	302	Sg	8:20:34.57			-0.39
KECS	82.9	35	Sg	8:20:36.89			-0.73
VYHS	101.8	313	Pg	8:20:30.07			0.63
			Sg	20:41.57			-2.05
ABAH	114.1	66	Pg	8:20:31.92			0.28
			Sg	20:46.16			-1.38

486.

2019-06-04 time: 9:01:41.01 UTC ML= 1.5
lat: 48.591N lon: 20.781E h= 0.0 km
erh= 3.8km erz= 4.4km
nr= 12 gap=128 rms=1.00
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	24.9	241	Pg	9:01:45.28			-0.17
			Sg	01:49.16			0.24
ABAH	47.2	134	Pg	9:01:49.54			0.10
			Sg	01:55.51			-0.51
PSZ	99.6	221	Pg	9:01:59.69			0.89
			Sg	02:12.45			-0.23
LANS	114.7	303	Pg	9:02:00.93			-0.56

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KOLS	116.1 71	ePg	9:02:06.50	4.75
		eSg	02:17.90	-0.03
TRPA	140.0 111	Sn	9:02:22.78	-1.83
VYHS	144.0 266	Pn	9:02:06.52	0.52
		Sn	02:23.98	-1.51

487.

2019-06-04 time: 9:50:17.21 UTC ML= 0.9
lat: 47.199N lon: 18.303E h= 0.0 km
erh= 0.9km erz= 1.7km
nr= 8 gap=121 rms=0.22
Locality: Székesfehérvár
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	18.5	350	Pg	9:50:20.50			-0.02
			Sg	50:22.57			-0.53
PKST	21.4	288	Pg	9:50:21.05			0.02
			Sg	50:24.05			0.03
PKSG	22.4	17	Pg	9:50:21.44			0.22
			Sg	50:24.56			0.22
PKSM	112.7	167	Sg	9:50:53.02			-0.02
PSZ	144.0	56	Sn	9:51:01.22			-0.47

488.

2019-06-04 time: 10:59:21.97 UTC ML= 2.0
lat: 48.891N lon: 20.974E h= 0.0 km
erh= 2.3km erz= 2.5km
nr= 17 gap= 90 rms=0.84
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	57.9	218	Pg	10:59:32.51			0.20
			Sg	59:39.53			-0.84
STHS	61.6	19	ePg	10:59:33.30			0.33
			eSg	59:42.40			0.84
NIE	75.9	321	Sg	10:59:45.38			-0.72
KOLS	95.3	87	Sg	10:59:51.23			-1.04
LANS	113.9	285	Pg	10:59:41.92			-0.38
			Sg	59:57.49			-0.67
PSZ	134.5	216	Pn	10:59:46.25			0.48
			Sn	11:00:02.33			-2.01
TRPA	143.3	126	Pn	10:59:47.77			0.90
			Sn	11:00:05.18			-1.11
A336	163.1	243	Sn	10:60:10.83			0.14
VYHS	163.5	254	Sn	10:60:09.40			-1.37
OJC	170.5	330	Pn	10:59:51.34			1.09
			Sn	11:00:12.45			0.13
PENC	175.3	226	Sn	10:60:14.69			1.30

489.

2019-06-04 time: 11:05:28.25 UTC ML= 1.4
lat: 47.052N lon: 18.028E h= 0.0 km
erh= 1.9km erz= 706km
nr= 12 gap= 90 rms=0.58
Locality: Balatonfűzfő
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
TIH	19.7	211	Pg	11:05:31.98			0.20
			Sg	05:34.28			-0.25
PKST	23.0	1	Pg	11:05:32.67			0.30
			Sg	05:35.30			-0.28
CSKK	38.8	27	Pg	11:05:35.20			0.01
			Sg	05:40.05			-0.55
MPLH	39.3	290	Pg	11:05:36.18			0.90
			Sg	05:39.94			-0.81
PKB1	65.4	117	Pg	11:05:40.23			0.30
PKB5	74.1	133	Pg	11:05:42.02			0.52
PKSM	104.5	153	Pg	11:05:46.08			-0.84
			Sg	05:59.97			-1.51

Hypocenter Parameters

490.

2019-06-05 time: 8:55:48.80 UTC ML= 1.6
lat: 48.585N lon: 20.764E h= 0.0 km
erh= 1.5km erz= 3.3km
nr= 11 gap= 89 rms=0.51
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	23.5	241	Pg	8:55:53.29			0.30
			Sg	55:56.32			0.06
ABAH	47.6	132	Pg	8:55:57.59			0.29
			Sg	56:03.61			-0.32
PSZ	98.3	221	Pg	8:56:07.04			0.69
			Sg	56:17.95			-2.10
STHS	98.9	21	ePg	8:56:06.50			0.04
			eSg	56:20.10			-0.14
LANs	114.0	303	Pg	8:56:08.91			-0.25
KOLS	117.5	71	Sg	8:56:25.64			-0.51
VYHS	142.8	266	Sn	8:56:31.95			-1.05

491.

2019-06-05 time: 9:38:37.69 UTC ML= 0.7
lat: 47.230N lon: 18.273E h= 0.0 km
erh= 3.3km erz= 395km
nr= 6 gap=254 rms=0.23
Locality: Iszkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	14.8	356	Pg	9:38:40.58			0.24
			Sg	38:41.78			-0.62
PKST	18.3	280	Pg	9:38:40.80			-0.17
			Sg	38:43.77			0.25
PKSG	20.1	26	Pg	9:38:41.28			0.00
			Sg	38:44.08			0.01

492.

2019-06-05 time: 10:11:26.91 UTC ML= 1.4
lat: 48.678N lon: 19.931E h= 0.0 km
erh= 2.3km erz= 889km
nr= 11 gap= 82 rms=0.72
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	46.3	118	Sg	10:11:40.96			-0.67
LANs	62.6	327	Pg	10:11:38.25			0.17
			Sg	11:46.07			-0.72
VYHS	83.3	256	Pg	10:11:42.09			0.30
			Sg	11:51.97			-1.43
PSZ	84.5	182	Pg	10:11:42.47			0.47
			Sg	11:53.66			-0.11
A336	84.9	234	Sg	10:11:53.45			-0.43
ABAH	105.6	114	Pg	10:11:46.93			1.16
			Sg	11:59.21			-1.28
STHS	126.3	49	ePg	10:11:49.80			0.33
			eSg	12:03.40			-3.66*

493.

2019-06-06 time: 5:57:31.78 UTC ML= 1.2
lat: 47.291N lon: 18.351E h= 0.0 km
erh= 1.1km erz= 2.5km
nr= 10 gap=110 rms=0.32
Locality: Magyaralmás
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	10.5	320	Pg	5:57:33.53			-0.13

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			Sg	57:34.69	-0.44
PKSG	11.6	15	Pg	5:57:33.80	-0.06
			Sg	57:35.93	0.45
PKST	24.2	262	Pg	5:57:36.34	0.24
			Sg	57:39.75	0.28
MORH	121.6	169	Sg	5:58:10.05	-0.38
PKSM	122.0	170	Pg	5:57:53.94	0.38
			Sg	58:10.23	-0.32
PSZ	135.5	59	Sn	5:58:13.79	-0.58

494.

2019-06-06 time: 7:57:34.15 UTC ML= 1.5
lat: 48.521N lon: 19.317E h= 0.0 km
erh= 2.5km erz= 674km
nr= 6 gap=138 rms=0.41
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
VYHS	35.6	265	Pg	7:57:40.41			-0.11
			Sg	57:44.52			-0.96
A336	39.7	216	Pg	7:57:41.78			0.53
			Sg	57:46.75			-0.03
LANs	70.9	9	eSg	7:57:56.80			0.12
PSZ	79.6	147	Sg	7:57:59.27			-0.18

495.

2019-06-06 time: 8:20:00.67 UTC ML= 1.5
lat: 48.595N lon: 20.747E h= 0.0 km
erh= 1.3km erz= 2.3km
nr= 9 gap=111 rms=0.29
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	22.9	237	Pg	8:20:05.11			0.34
			Sg	20:07.68			-0.29
ABAH	49.3	132	Pg	8:20:09.88			0.41
			Sg	20:16.06			-0.28
PSZ	98.3	220	Pg	8:20:18.08			-0.15
STHS	98.4	22	ePg	8:20:18.20			-0.04
LANs	112.4	303	Pg	8:20:20.75			0.00
VYHS	141.6	265	Pn	8:20:25.21			-0.15
			Sn	20:43.09			-1.52

496.

2019-06-06 time: 8:30:53.11 UTC ML= 1.3
lat: 46.022N lon: 18.098E h= 0.0 km
erh= 2.5km erz= 354km
nr= 6 gap=298 rms=0.20
Locality: Zók
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KOVH	7.4	1	Pg	8:30:54.27			-0.16
			Sg	30:55.64			0.17
PKSM	47.0	63	Pg	8:31:01.70			0.20
			Sg	31:07.60			-0.45
MORH	47.4	63	Sg	8:31:08.26			0.08
PKB5	80.5	38	Sg	8:31:18.72			0.04

497.

2019-06-06 time: 8:46:34.99 UTC ML= 1.3
lat: 47.324N lon: 18.449E h= 0.0 km
erh= 2.6km erz= 512km
nr= 7 gap=204 rms=0.34
Locality: Zámoly
Comments: probably explosion

Földrengés paraméterek

sta	dist	azm	phase	hr mn sec	res
PKSG	8.7	329	PgU	8:46:36.73	0.18
			Sg	46:37.20	-0.56
CSKK	14.9	287	Pg	8:46:37.95	0.30
			Sg	46:39.92	0.19
PKST	32.2	257	Pg	8:46:40.85	0.10
			Sg	46:44.45	-0.78
PKSM	124.5	173	Sg	8:47:14.28	-0.29

498.

2019-06-06 time: 10:46:47.33 UTC ML= 1.4
lat: 48.508N lon: 18.674E h= 0.0 km
erh= 1.0km erz= 1.0km
nr= 5 gap=264 rms=0.32
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	12.1	97	Pg	10:46:49.62	0.12
			Sg	46:50.84	-0.34
A336	38.9	142	Sg	10:46:59.77	0.07
PKSG	125.9	190	Sg	10:47:27.86	0.52
CSKK	131.0	194	Sn	10:47:28.42	-0.50

499.

2019-06-07 time: 7:54:51.95 UTC ML= 1.8
lat: 47.728N lon: 18.497E h= 0.0 km
erh= 3.3km erz= ***km
nr= 10 gap=114 rms=1.02
Locality: Látatlan
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
SRO	16.7	305	Pg	7:54:55.23	0.29
			Sg	54:58.21	0.93
PKSG	38.2	192	Pg	7:54:59.29	0.52
			Sg	55:03.84	-0.25
CSKK	44.3	204	Sg	7:55:05.33	-0.69
PKST	62.7	214	Sg	7:55:12.30	0.42
VYHS	88.9	17	eSg	7:55:22.50	2.30
MPLH	95.2	229	Sg	7:55:21.20	-1.00
PSZ	106.8	79	Sg	7:55:24.86	-1.03
MODS	115.9	308	eSg	7:55:26.60	-2.19

500.

2019-06-07 time: 8:10:00.82 UTC ML= 1.3
lat: 47.603N lon: 16.315E h= 10.0 km
erh= 2.2km erz= 1.6km
nr= 14 gap=119 rms=0.64
Locality: Austria
Comments:

sta	dist	azm	phase	hr mn sec	res
RONA	10.9	353	Pg	8:10:03.18	-0.28
			Sg	10:05.80	0.28
SOP	20.4	64	Pg	8:10:04.30	-0.57
			Sg	10:07.06	-0.97
CONA	49.7	317	Pg	8:10:10.42	0.55
			Sg	10:17.14	0.21
ARSA	71.4	237	Sg	8:10:23.31	-0.44
EGYH	79.3	105	Sg	8:10:26.96	0.73
MPLH	104.2	117	S*	8:10:34.02	-0.02
MODS	111.8	40	ePn	8:10:19.70	-0.82
			eSn	10:35.00	-0.89
PKST	135.2	106	Sn	8:10:42.19	1.11
KRUC	162.4	2	Pn	8:10:27.85	1.03
			Sn	10:47.13	0.03

Hypocenter Parameters

501.

2019-06-07 time: 9:28:41.51 UTC ML= 1.0
lat: 47.232N lon: 18.250E h= 0.0 km
erh= 2.7km erz= 3.5km
nr= 8 gap=232 rms=0.37
Locality: Iszkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	14.6	3	Pg	9:28:44.02	-0.10
			Sg	28:46.36	0.20
PKST	16.6	281	Pg	9:28:44.42	-0.06
			Sg	28:46.14	-0.66
PKSG	20.7	31	Pg	9:28:45.13	-0.08
			Sg	28:48.44	0.34
MPLH	54.3	263	Pg	9:28:51.71	0.51
VYHS	147.0	17	eSn	9:29:25.60	-1.06

502.

2019-06-07 time: 10:21:59.70 UTC ML= 1.7
lat: 48.608N lon: 20.821E h= 0.0 km
erh= 2.9km erz= 7.7km
nr= 8 gap=130 rms=0.72
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	28.4	241	Pg	10:22:04.83	0.07
			Sg	22:07.85	-0.86
ABAH	46.5	138	Sg	10:22:14.08	-0.39
PSZ	103.0	222	Pg	10:22:18.97	0.88
			Sg	22:31.83	-0.60
KOLS	112.7	71	eSg	10:22:34.70	-0.83
LANS	116.2	301	Pg	10:22:20.12	-0.32
VYHS	147.1	265	ePn	10:22:26.50	1.43

503.

2019-06-07 time: 11:00:30.30 UTC ML= 1.7
lat: 48.875N lon: 20.907E h= 0.0 km
erh= 1.4km erz= 2.0km
nr= 12 gap= 77 rms=0.34
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	53.5	215	Pg	11:00:40.04	0.19
			Sg	00:47.25	-0.05
STHS	65.1	22	ePg	11:00:42.30	0.38
			eSg	00:50.00	-0.98
ABAH	68.9	159	Pg	11:00:42.44	-0.16
			Sg	00:52.05	-0.15
KOLS	100.4	86	ePg	11:00:48.60	0.38
			eSg	01:01.20	-1.00
PSZ	130.1	215	Pg	11:00:53.73	0.19
			Sg	01:11.05	-0.62
VYHS	158.3	254	Sn	11:01:17.88	-0.07
OJC	169.7	332	Sn	11:01:20.08	-0.40

504.

2019-06-08 time: 10:09:55.23 UTC ML= 1.4
lat: 48.051N lon: 19.641E h= 0.0 km
erh= 1.6km erz= 473km
nr= 8 gap=103 rms=0.33
Locality: Sóshartyán
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	24.0	128	Pg	10:09:59.59	0.08
			Sg	10:02.88	0.02
PENC	39.5	223	Pg	10:10:01.86	-0.43

Hypocenter Parameters

Sg 10:08.04 0.24
A336 51.9 293 Pg 10:10:04.96 0.46
Sg 10:11.90 0.17
VYHS 77.4 309 Sg 10:10:19.07 -0.77
KECS 79.0 53 Pg 10:10:09.30 -0.03

505.

2019-06-08 time: 10:11:32.62 UTC ML= 1.3
lat: 48.034N lon: 19.648E h= 0.0 km
erh= 1.9km erz= 415km
nr= 6 gap=190 rms=0.25
Locality: Lucfalva
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PSZ	22.4	125	Pg	10:11:36.86			0.23
			Sg	11:39.53			-0.22
PENC	38.5	225	Pg	10:11:39.33			-0.17
			Sg	11:44.88			0.01
A336	53.2	295	Pg	10:11:42.38			0.26
			Sg	11:49.03			-0.50

506.

2019-06-09 time: 8:52:06.97 UTC ML= 1.6
lat: 46.090N lon: 17.024E h= 11.1 km
erh= 1.7km erz= 1.6km
nr= 16 gap=152 rms=0.50
Locality: Croatia
Comments:

sta	dist	azm	phase	hr	mn	sec	res
BEHE	46.4	336	Pg	8:52:15.70			0.21
			Sg	52:21.94			-0.21
KOVH	83.2	90	Pg	8:52:22.41			0.46
			Sg	52:33.33			-0.31
PTJ	85.3	256	Pg	8:52:23.16			0.84
			Sg	52:33.12			-1.18
PKSV	97.7	103	Pg	8:52:24.80			0.27
			Sg	52:37.20			-1.03
PKSM	125.7	84	Pn	8:52:27.62			-0.62
			Sn	52:44.47			-0.37
MORH	125.9	84	Sn	8:52:44.94			0.04
PKB5	143.2	67	Sn	8:52:49.55			0.81

507.

2019-06-10 time: 7:36:08.93 UTC ML= 1.4
lat: 48.616N lon: 20.736E h= 0.0 km
erh= 2.0km erz= 3.7km
nr= 15 gap= 85 rms=0.67
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	23.6	231	Pg	7:36:13.48			0.33
			Sg	36:17.20			0.76
ABAH	51.5	134	Pg	7:36:17.70			-0.42
			Sg	36:24.44			-0.85
STHS	96.5	23	ePg	7:36:26.40			0.24
			eSg	36:38.50			-1.11
PSZ	99.6	219	Pg	7:36:26.76			0.05
			Sg	36:40.00			-0.57
LANS	110.4	303	Pg	7:36:28.44			-0.20
			Sg	36:43.45			-0.57
KOLS	118.4	73	ePg	7:36:32.30			2.23
			eSg	36:46.60			0.04
A336	135.4	252	Pn	7:36:33.22			0.38
VYHS	140.9	264	Pn	7:36:33.89			0.36
			Sn	36:50.58			-2.14

Földrengés paraméterek

508.

2019-06-10 time: 14:27:48.06 UTC ML= 2.2
lat: 45.536N lon: 16.151E h= 8.5 km
erh= 3.5km erz= 2.5km
nr= 24 gap=164 rms=1.03
Locality: Croatia
Comments:

sta	dist	azm	phase	hr	mn	sec	res
ZAG	34.8	339	Pg	14:27:54.70			0.25
			Sg	28:00.09			0.65
PTJ	43.2	340	Pg	14:27:56.23			0.32
			Sg	28:01.32			-0.72
CRES	62.9	301	Pg	14:27:59.16			-0.24
			Sg	28:07.38			-0.87
KOGS	101.7	4	Pg	14:28:05.71			-0.57
			Sg	28:19.72			-0.78
GROS	114.5	334	Pn	14:28:08.76			0.48
			Sn	28:21.57			-2.49
BEHE	114.6	25	Pn	14:28:08.33			0.03
			Sn	28:23.04			-1.04
BLY	119.4	137	Pn	14:28:08.73			-0.17
			Sn	28:22.27			-2.89
SOKA	153.6	326	Pn	14:28:14.38			1.22
			Sn	28:32.67			-0.07
KOVH	163.5	68	Sn	14:28:34.66			-0.28
OBKA	164.6	311	Pn	14:28:17.03			2.50
			Sn	28:36.15			0.97
PKSV	168.3	77	Sn	14:28:36.43			0.43
ARSA	196.6	346	Sn	14:28:44.06			1.77
PKSM	207.5	69	Sn	14:28:47.05			2.35
MORH	207.8	69	Sn	14:28:46.81			2.03

509.

2019-06-11 time: 8:42:32.58 UTC ML= 1.7
lat: 45.530N lon: 17.832E h= 10.0 km
erh= 1.6km erz= 4.3km
nr= 7 gap=339 rms=0.07
Locality: Croatia
Comments:

sta	dist	azm	phase	hr	mn	sec	res
PKSV	51.5	39	Pg	8:42:41.95			-0.01
			Sg	42:49.29			0.02
KOVH	65.4	19	Sg	8:42:53.61			-0.01
PKSM	98.4	40	Pg	8:42:50.36			0.11
			Sg	43:03.97			-0.06
MORH	98.9	40	Pg	8:42:50.23			-0.10
			Sg	43:04.21			0.03

510.

2019-06-11 time: 8:45:37.36 UTC ML= 1.8
lat: 48.604N lon: 20.769E h= 0.0 km
erh= 1.6km erz= 2.5km
nr= 13 gap= 86 rms=0.47
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	24.9	237	Pg	8:45:42.17			0.37
			Sg	45:45.17			-0.09
ABAH	48.8	135	Pg	8:45:46.24			0.17
			Sg	45:52.50			-0.36
STHS	96.9	21	ePg	8:45:55.00			0.34
			eSg	46:08.30			0.15
PSZ	100.1	220	Pg	8:45:54.59			-0.65
			Sg	46:09.55			0.37
LANS	113.2	303	Pg	8:45:57.59			0.01
KOLS	116.5	72	Sg	8:46:13.72			-0.66
A336	137.4	253	Pn	8:46:02.07			0.55
			Sn	46:19.11			-1.26
VYHS	143.3	265	ePn	8:46:02.50			0.24

Földrengés paraméterek

eSn 46:18.50 -3.17*

511.

2019-06-11 time: 9:23:26.82 UTC ML= 1.5
lat: 47.313N lon: 18.441E h= 0.0 km
erh= 3.3km erz= 3.5km
nr= 8 gap=200 rms=0.40
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSG	9.5	336	PgU	9:23:28.78			0.27
CSKK	14.7	292	Pg	9:23:29.68			0.23
			Sg	23:31.19			-0.31
PKST	31.4	259	Pg	9:23:32.72			0.30
			Sg	23:36.05			-0.74
PSZ	128.3	58	Sg	9:24:07.26			-0.34
VYHS	134.5	13	Pn	9:23:50.72			0.09
			Sn	24:07.91			-1.29

512.

2019-06-11 time: 10:53:46.81 UTC ML= 1.5
lat: 48.342N lon: 19.836E h= 0.0 km
erh= 2.8km erz= 876km
nr= 8 gap=103 rms=0.62
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PSZ	47.3	175	Pg	10:53:55.50			0.25
			Sg	54:01.85			0.01
KECS	50.6	72	Pg	10:53:55.26			-0.58
A336	63.3	259	Sg	10:54:06.58			-0.34
VYHS	75.9	283	Pg	10:54:00.75			0.38
			Sg	54:09.83			-1.11
LANS	93.9	343	ePg	10:54:04.70			1.12
			eSg	54:16.10			-0.56

513.

2019-06-11 time: 11:11:09.33 UTC ML= 0.9
lat: 47.100N lon: 18.028E h= 0.0 km
erh= 1.9km erz= 642km
nr= 9 gap=114 rms=0.49
Locality: Királyszentistván
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKST	17.6	2	Pg	11:11:12.12			-0.35
			Sg	11:14.64			-0.29
TIH	24.5	205	Sg	11:11:18.40			1.27
CSKK	34.1	31	Sg	11:11:20.70			0.54
MPLH	37.9	282	Sg	11:11:21.67			0.30
PKSG	42.5	40	Pg	11:11:17.04			0.13
			Sg	11:23.35			0.53
MORH	109.1	154	Pg	11:11:28.33			-0.47
			Sg	11:43.40			-0.59

514.

2019-06-12 time: 10:00:51.91 UTC ML= 1.0
lat: 47.207N lon: 18.257E h= 0.0 km
erh= 2.3km erz= 289km
nr= 6 gap=263 rms=0.17
Locality: Csór
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	17.4	1	Pg	10:00:55.16			0.14
			Sg	00:57.22			-0.22
PKST	17.9	289	Pg	10:00:55.19			0.09
			Sg	00:57.40			-0.19

Hypocenter Parameters

PKSG 22.9 26 Pg 10:00:55.84 -0.16
Sg 00:59.48 0.28

515.

2019-06-12 time: 10:48:51.40 UTC ML= 2.2
lat: 48.251N lon: 21.242E h= 0.0 km
erh= 1.7km erz= 3.1km
nr= 10 gap=152 rms=0.43
Locality: Tállya
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
ABAH	5.0	358	PgU	10:48:52.52			0.22
			Sg	48:53.08			0.08
KECS	61.7	295	Pg	10:49:02.62			0.20
			Sg	49:10.61			-0.41
TRPA	97.4	98	Pg	10:49:08.34			-0.45
PSZ	107.0	250	Pg	10:49:10.76			0.25
			Sg	49:24.93			-0.48
KOLS	107.4	45	Pg	10:49:11.14			0.55
			Sg	49:22.03			-3.52*
NIE	146.7	332	Sn	10:49:35.77			-0.71

516.

2019-06-13 time: 7:55:26.59 UTC ML= 0.8
lat: 47.310N lon: 18.313E h= 0.0 km
erh= 2.1km erz= 363km
nr= 6 gap=222 rms=0.27
Locality: Söréd
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	7.1	326	PgU	7:55:27.86			0.00
			Sg	55:28.45			-0.40
PKSG	10.8	33	PgU	7:55:28.52			0.00
			Sg	55:30.07			0.05
PKST	21.9	255	Pg	7:55:30.89			0.39
			Sg	55:33.10			-0.44

517.

2019-06-13 time: 12:59:19.19 UTC ML= 1.3
lat: 47.808N lon: 16.250E h= 14.5 km
erh= 3.0km erz= 2.1km
nr= 11 gap=112 rms=0.44
Locality: Austria
Comments:

sta	dist	azm	phase	hr	mn	sec	res
RONA	12.6	164	Pg	12:59:22.87			0.24
			Sg	59:25.00			-0.30
SOP	27.0	121	Pg	12:59:24.92			0.25
			Sg	59:28.55			-0.39
CONA	31.9	295	Pg	12:59:25.63			0.17
			Sg	59:30.02			-0.33
ARSA	82.7	221	S*	12:59:43.81			-2.02
KRUC	139.8	4	Pn	12:59:42.32			0.52
			Sn	59:58.74			-0.69
VRAC	168.7	9	Pn	12:59:45.62			0.22
			Sn	13:00:05.30			-0.55

518.

2019-06-13 time: 17:47:05.50 UTC ML= 1.6
lat: 47.803N lon: 16.233E h= 14.7 km
erh= 2.4km erz= 1.5km
nr= 15 gap= 76 rms=0.68
Locality: Austria
Comments:

sta	dist	azm	phase	hr	mn	sec	res
RONA	12.4	158	Pg	17:47:09.50			0.57

Hypocenter Parameters

		Sg	47:11.61	0.00
SOP	27.7 119	Pg	17:47:11.73	0.62
		Sg	47:14.82	-0.66
CONA	31.1 297	Pg	17:47:11.13	-0.52
ARSA	81.4 221	P*	17:47:20.39	0.13
		S*	47:30.40	-1.37
EGYH	93.0 117	P*	17:47:22.64	0.61
MODS	100.4 51	eP*	17:47:22.90	-0.24
		eS*	47:35.90	-1.00
A339	106.6 88	Sn	17:47:36.93	-1.40
MPLH	121.0 126	Sn	17:47:41.01	-0.52
KRUC	140.5 5	Pn	17:47:28.90	0.72
TREC	174.8 342	eSn	17:47:54.40	0.92
ZVC	236.1 320	eSn	17:48:09.90	2.82*

519.

2019-06-14 time: 6:52:21.90 UTC ML= 1.3
lat: 46.045N lon: 18.344E h= 0.0 km
erh= 1.2km erz= 300km
nr= 8 gap=151 rms=0.22
Locality: Magyarsarlós
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSV	18.8	202	Sg	6:52:27.94	0.06
KOVH	19.5	284	Pg	6:52:25.30	-0.08
			Sg	52:28.39	0.29
PKSM	29.5	51	Pg	6:52:27.22	0.05
			Sg	52:31.19	-0.09
MORH	30.0	51	Pg	6:52:27.29	0.04
			Sg	52:31.40	-0.02
PKB1	89.1	23	Sg	6:52:48.62	-1.60

520.

2019-06-14 time: 7:47:18.97 UTC ML= 1.2
lat: 48.774N lon: 19.333E h= 0.0 km
erh= 1.1km erz= 1.9km
nr= 10 gap=143 rms=0.32
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
LANS	43.1	13	Pg	7:47:26.82	0.16
			Sg	47:32.59	-0.07
VYHS	48.0	230	Pg	7:47:27.58	0.04
			Sg	47:34.78	0.55
A336	65.0	202	Pg	7:47:30.66	0.09
			Sg	47:39.58	-0.04
PSZ	103.8	156	Pg	7:47:37.55	0.04
			Sg	47:50.70	-1.28
MODS	158.1	254	ePn	7:47:45.30	-0.41
			eSn	48:05.50	-1.07

521.

2019-06-14 time: 9:28:07.94 UTC ML= 0.9
lat: 47.195N lon: 18.288E h= 0.0 km
erh= 1.2km erz= 160km
nr= 6 gap=271 rms=0.10
Locality: Sárkeszi
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	18.8	354	Pg	9:28:11.12	-0.17
			Sg	28:13.90	0.00
PKST	20.4	290	Pg	9:28:11.64	0.05
			Sg	28:14.38	-0.05
PKSG	23.2	20	Pg	9:28:12.19	0.11
			Sg	28:15.34	0.03

Földrengés paraméterek

522.

2019-06-14 time: 9:59:24.81 UTC ML= 1.3
lat: 47.547N lon: 16.301E h= 7.6 km
erh= 3.1km erz= 2.3km
nr= 11 gap=189 rms=0.63
Locality: Austria
Comments:

sta	dist	azm	phase	hr mn sec	res
RONA	16.9	359	Pg	9:59:28.19	0.06
			Sg	59:30.93	0.21
SOP	24.6	52	Pg	9:59:29.47	0.06
			Sg	59:31.66	-1.33
CONA	53.6	322	Pg	9:59:35.37	0.88
			Sg	59:41.41	-0.63
ARSA	67.3	241	Sg	9:59:45.66	-0.69
MODS	117.3	38	ePn	9:59:45.50	0.00
			eSn	10:00:00.60	-1.04
KRUC	168.6	2	Pn	9:59:52.66	0.77
			Sn	10:00:12.56	-0.45

523.

2019-06-14 time: 10:34:46.47 UTC ML= 1.5
lat: 47.877N lon: 16.323E h= 10.0 km
erh= 2.6km erz= 2.7km
nr= 16 gap= 89 rms=0.75
Locality: Austria
Comments:

sta	dist	azm	phase	hr mn sec	res
RONA	19.9	186	Pg	10:34:50.80	0.35
			Sg	34:53.47	-0.07
SOP	27.9	141	Pg	10:34:52.24	0.47
			Sg	34:55.84	-0.05
CONA	34.9	279	Pg	10:34:53.30	0.34
			Sg	34:58.38	0.36
MODS	90.0	52	ePg	10:35:02.60	-0.04
			eSg	35:13.90	-1.35
ARSA	92.1	221	Pg	10:35:02.15	-0.86
			Sg	35:13.51	-2.40
KRUC	131.8	2	Pn	10:35:08.67	0.00
			Sn	35:24.21	-1.76
MOA	153.9	269	Pn	10:35:12.48	1.06
			Sn	35:32.21	1.33
VRAC	160.4	7	Pn	10:35:12.72	0.49
			Sn	35:31.42	-0.89

524.

2019-06-14 time: 12:34:11.15 UTC ML= 2.3
lat: 47.760N lon: 16.136E h= 8.9 km
erh= 1.7km erz= 1.3km
nr= 42 gap= 57 rms=0.85
Locality: Austria
Comments:

sta	dist	azm	phase	hr mn sec	res
RONA	13.7	119	Pg	12:34:14.38	0.31
			Sg	34:16.52	0.18
CONA	27.8	312	Pg	12:34:16.05	-0.31
			Sg	34:19.74	-0.69
SOP	32.8	105	Pg	12:34:17.44	0.23
			Sg	34:21.66	-0.28
ARSA	73.1	219	Pg	12:34:23.30	-1.00
			Sg	34:31.77	-2.78
EGYH	97.6	113	Pg	12:34:29.07	0.41
MODS	109.0	51	ePn	12:34:29.20	-1.45
			eSn	34:43.90	-1.95
MPLH	124.4	122	Pn	12:34:31.84	-0.73
SMOL	127.6	49	ePn	12:34:34.00	1.04
			eSn	34:50.20	0.23
MOA	140.5	274	Pn	12:34:35.15	0.58
			Sn	34:52.09	-0.74

Földrengés paraméterek

KRUC	146.1	8	Pn	12:34:35.42	0.16
			Sn	34:52.93	-1.14
SOKA	146.5	215	Pn	12:34:34.79	-0.52
			Sn	34:52.35	-1.81
PERS	146.9	212	Sn	12:34:53.25	-1.01
GROS	152.2	198	Pn	12:34:37.42	1.39
PKST	153.4	111	Pn	12:34:36.26	0.08
			Sn	34:55.87	0.16
SRO	163.2	88	ePn	12:34:38.50	1.10
PKSG	174.5	104	Pn	12:34:38.89	0.09
VRAC	175.5	11	Pn	12:34:39.16	0.23
			Sn	34:59.73	-0.87
TREC	177.3	344	eSn	12:35:01.10	0.09
OBKA	184.0	221	Pn	12:34:41.39	1.40
BIOA	187.6	268	Pn	12:34:42.28	1.84
			Sn	35:04.57	1.29
VYHS	216.9	68	Pn	12:34:44.06	-0.04
PKB1	228.4	118	Pn	12:34:45.64	0.12
ZVC	235.4	322	eSn	12:35:16.20	2.29
KOVH	238.5	141	Pn	12:34:47.15	0.36
MORC	247.0	25	Pn	12:34:49.08	1.23
			Sn	35:15.39	-1.08
MORH	256.6	132	Pn	12:34:48.90	-0.15
PKSM	256.8	132	Pn	12:34:48.96	-0.11
KRLC	261.8	10	Pn	12:34:50.73	1.03
			Sn	35:19.77	0.01

525.

2019-06-17 time: 7:52:49.80 UTC ML= 1.8
lat: 45.966N lon: 16.070E h= 6.2 km
erh= 2.5km erz= 3.5km
nr= 12 gap=108 rms=0.56
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
PTJ	11.3	230	PgD	7:52:51.78	-0.33
			Sg	52:53.38	-0.53
ZAG	16.3	201	Pg	7:52:52.77	-0.15
			Sg	52:55.54	0.20
GOLS	34.9	278	ePg	7:52:57.40	1.27
GCIS	36.0	252	ePg	7:52:56.69	0.36
			eSg	53:02.06	0.64
CRES	50.0	252	Pg	7:52:59.18	0.37
			Sg	53:05.34	-0.49
KOGS	55.4	15	Sg	7:53:07.53	0.00
PERS	104.6	315	Sg	7:53:21.92	-1.19
PKSV	169.5	93	Sn	7:53:38.02	-0.51

526.

2019-06-17 time: 7:59:31.63 UTC ML= 1.2
lat: 47.322N lon: 17.621E h= 0.0 km
erh= 1.3km erz= 4.3km
nr= 8 gap=149 rms=0.37
Locality: Ugod
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
MPLH	17.9	200	Pg	7:59:34.81	-0.02
			Sg	59:37.49	0.16
EGYH	24.3	296	Pg	7:59:35.84	-0.12
			Sg	59:39.34	0.00
PKST	32.0	103	Pg	7:59:37.90	0.55
			Sg	59:41.74	-0.08
CSKK	48.6	85	Sg	7:59:46.55	-0.52
KOVH	141.9	165	Sn	7:60:14.22	-1.42

Hypocenter Parameters

527.

2019-06-17 time: 9:53:05.14 UTC ML= 1.4
lat: 48.545N lon: 20.780E h= 0.0 km
erh= 5.0km erz= 4.5km
nr= 7 gap=155 rms=0.58
Locality: Komjáti
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	22.8	252	Pg	9:53:09.60	0.39
			Sg	53:12.60	0.22
PSZ	95.8	223	Sg	9:53:34.71	-0.88
STHS	102.7	19	ePg	9:53:23.50	0.02
KOLS	118.0	69	Sg	9:53:42.24	-0.42
VYHS	143.7	268	Pn	9:53:30.68	0.59
			Sn	53:48.17	-1.38

528.

2019-06-17 time: 21:05:50.75 UTC ML= 1.0
lat: 47.386N lon: 18.184E h= 9.3 km
erh= 0.7km erz= 0.6km
nr= 18 gap= 86 rms=0.25
Locality: Mór
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	6.3	114	PgU	21:05:52.74	-0.01
			Sg	05:54.39	0.08
PKSG	15.6	88	Pg	21:05:54.16	0.17
			Sg	05:56.26	-0.26
PKST	18.1	219	Pg	21:05:54.20	-0.18
			Sg	05:57.15	-0.06
SRO	48.5	12	Sg	21:06:06.93	0.49
A338	71.1	10	Pg	21:06:03.78	0.23
			Sg	06:13.14	-0.40
PKB5	97.4	154	Sg	21:06:21.63	-0.23
MORH	134.7	165	Sn	21:06:30.87	-0.20
PKSM	135.1	165	Sn	21:06:30.90	-0.25
KOVH	144.4	183	Sn	21:06:33.30	0.09

529.

2019-06-18 time: 6:32:39.01 UTC ML= 1.1
lat: 47.993N lon: 19.994E h= 0.0 km
erh= 1.6km erz= 407km
nr= 5 gap=188 rms=0.19
Locality: Mátraballa
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	11.2	222	Pg	6:32:40.77	-0.24
			Sg	32:42.87	0.31
KECS	65.6	34	Sg	6:32:59.92	0.06
A336	78.8	290	Sg	6:33:04.14	0.09
VYHS	102.5	303	Sg	6:33:11.61	0.02

530.

2019-06-18 time: 7:09:23.00 UTC ML= 1.7
lat: 46.864N lon: 17.257E h= 0.0 km
erh= 4.9km erz= ***km
nr= 9 gap=222 rms=0.78
Locality: Zalaszentó
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
MPLH	40.2	32	Pg	7:09:29.76	-0.42
			Sg	09:35.39	-0.38
TIH	48.6	85	Sg	7:09:40.26	1.80
EGYH	61.7	5	Sg	7:09:43.83	1.22
PKST	73.6	53	Pg	7:09:35.66	-0.47
			Sg	09:45.51	-0.87

Hypocenter Parameters

PKSG 104.1 56 Sg 7:09:55.77 -0.31
KOVH 107.9 143 Pg 7:09:43.01 0.75
Sg 09:56.69 -0.59

531.

2019-06-18 time: 8:50:51.31 UTC ML= 1.5
lat: 48.620N lon: 20.704E h= 0.0 km
erh= 3.9km erz= 4.3km
nr= 10 gap=144 rms=0.82
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	22.2	227	Pg	8:50:55.67	0.40
			Sg	50:57.81	-0.55
STHS	97.0	24	ePg	8:51:09.20	0.57
			eSg	51:20.10	-2.04
PSZ	98.5	218	Pg	8:51:09.70	0.80
			Sg	51:21.64	-0.98
LANS	108.2	303	ePg	8:51:11.20	0.58
KOLS	120.5	73	eSg	8:51:29.10	-0.51
A336	133.3	251	Sn	8:51:31.42	-2.00
VYHS	138.6	264	Sn	8:51:34.26	-0.33

532.

2019-06-18 time: 8:59:54.37 UTC ML= 1.6
lat: 47.946N lon: 19.892E h= 0.0 km
erh= 2.5km erz= 4.3km
nr= 11 gap=141 rms=0.69
Locality: Dorogháza
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	3.1	177	Pg	8:59:54.74	-0.19
			Sg	59:56.19	0.83
A336	73.8	296	Pg	8:60:08.47	0.92
			Sg	60:18.60	0.76
KECS	74.2	36	Pg	8:60:07.61	-0.02
VYHS	99.4	308	Pg	8:60:11.79	-0.33
			Sg	60:24.66	-1.30
PKSG	128.5	241	Sg	8:60:34.25	-0.98
PKB2	149.7	199	Sn	8:60:39.25	-0.87
STHS	191.4	31	ePn	8:60:25.40	0.12
			eSn	60:51.50	2.12

533.

2019-06-18 time: 11:20:42.98 UTC ML= 1.6
lat: 46.835N lon: 17.451E h= 0.0 km
erh= 5.1km erz= 936km
nr= 9 gap=221 rms=0.70
Locality: Kisapáti
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
TIH	34.5	78	Sg	11:20:54.90	0.96
MPLH	37.8	10	Sg	11:20:53.48	-1.52
PKST	64.7	43	Pg	11:20:55.23	0.70
KOVH	96.9	149	Pg	11:21:00.51	0.24
			Sg	21:14.56	0.80
MORH	114.6	127	Pg	11:21:03.34	-0.10
			Sg	21:18.52	-0.88
PKSM	114.7	127	Pg	11:21:03.14	-0.32
			Sg	21:18.49	-0.94

Földrengés paraméterek

534.

2019-06-19 time: 8:39:51.96 UTC ML= 1.8
lat: 48.341N lon: 19.003E h= 0.0 km
erh= 1.9km erz= 5.4km
nr= 16 gap= 61 rms=0.76
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
A336	12.0	181	PgU	8:39:54.40	0.31
			Sg	39:56.05	0.29
VYHS	21.0	324	PgU	8:39:56.22	0.51
			Sg	39:59.51	0.87
A338	60.4	233	Sg	8:40:10.97	-0.19
PENC	64.6	161	Sg	8:40:12.41	-0.09
PSZ	81.3	125	Pg	8:40:07.47	0.99
LANS	96.3	21	eSg	8:40:21.50	-1.07
KECS	110.9	82	Pg	8:40:11.77	0.01
			Sg	40:25.94	-1.27
PKSG	115.0	203	Pg	8:40:13.11	0.61
			Sg	40:27.35	-1.17
CSKK	122.1	207	Sg	8:40:29.41	-1.35
MODS	127.9	272	ePg	8:40:13.90	-0.90
			eSg	40:30.40	-2.22
MPLH	170.2	220	Sn	8:40:42.51	0.25

535.

2019-06-19 time: 9:34:53.50 UTC ML= 1.3
lat: 48.407N lon: 18.465E h= 0.0 km
erh= 1.2km erz= 320km
nr= 8 gap=163 rms=0.23
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	29.1	70	Pg	9:34:58.83	0.12
			Sg	35:02.50	-0.27
A336	44.1	116	Pg	9:35:01.59	0.22
			Sg	35:06.42	-1.09
A338	44.3	191	Pg	9:35:01.41	0.00
			Sg	35:07.62	0.03
MODS	88.0	268	ePg	9:35:09.20	-0.02
			eSg	35:21.20	-0.28

536.

2019-06-19 time: 9:44:39.02 UTC ML= 1.5
lat: 47.330N lon: 18.435E h= 0.0 km
erh= 2.3km erz= 4.5km
nr= 9 gap=160 rms=0.51
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	7.7	334	PgU	9:44:40.56	0.17
			Sg	44:40.96	-0.49
CSKK	13.7	286	Pg	9:44:41.95	0.48
			Sg	44:43.89	0.51
PKST	31.4	255	Pg	9:44:44.76	0.14
			Sg	44:47.99	-1.00
MORH	124.9	173	Sg	9:45:18.91	0.19
PKSM	125.3	173	Sg	9:45:18.64	-0.21
VYHS	132.8	13	Sn	9:45:19.70	-1.32

537.

2019-06-19 time: 10:04:02.97 UTC ML= 1.7
lat: 47.309N lon: 18.462E h= 0.0 km
erh= 3.2km erz= 5.9km
nr= 10 gap=161 rms=0.61
Locality: Pátka
Comments: probably explosion

Földrengés paraméterek

sta	dist	azm	phase	hr mn sec	res
PKSG	10.7	330	PgU	10:04:05.09	0.21
			Sg	04:05.57	-0.80
CSKK	16.4	292	Pg	10:04:06.52	0.62
			Sg	04:08.30	0.12
PKST	32.8	260	Pg	10:04:08.81	-0.02
			Sg	04:12.18	-1.23
MORH	122.3	173	Sg	10:04:41.80	-0.04
PKSM	122.7	174	Sg	10:04:41.90	-0.07
VYHS	134.7	12	Pn	10:04:27.36	0.56
			Sn	04:43.34	-2.05

538.

2019-06-20 time: 6:49:38.46 UTC ML= 1.2
lat: 47.572N lon: 18.404E h= 0.0 km
erh= 0.9km erz= 199km
nr= 10 gap=159 rms=0.16
Locality: Tatabánya
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	20.1	183	Pg	6:49:41.86	-0.18
			Sg	49:44.78	-0.05
CSKK	25.6	205	Pg	6:49:42.89	-0.14
			Sg	49:46.74	0.14
PKST	44.6	219	Pg	6:49:46.39	-0.03
			Sg	49:52.91	0.28
PENC	70.2	70	Pg	6:49:51.04	0.04
			Sg	50:00.94	0.15
VYHS	107.5	17	Pg	6:49:57.73	0.08
			Sg	50:10.39	-2.23*

539.

2019-06-20 time: 6:54:59.58 UTC ML= 2.0
lat: 47.326N lon: 18.459E h= 0.0 km
erh= 1.8km erz= 2.8km
nr= 11 gap=115 rms=0.51
Locality: Pátka
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	8.9	324	Pg	6:55:01.53	0.36
			Sg	55:01.82	-0.60
CSKK	15.6	285	PgU	6:55:02.73	0.37
			Sg	55:03.74	-0.79
PKST	33.0	257	Pg	6:55:06.24	0.76
			Sg	55:09.67	-0.41
MORH	124.3	173	Sg	6:55:38.68	-0.40
PKSM	124.7	174	Sg	6:55:38.89	-0.33
PSZ	126.4	59	Sg	6:55:39.71	-0.03
VYHS	132.8	12	Sn	6:55:40.81	-0.77
MODS	146.2	323	eSn	6:55:44.70	0.15

540.

2019-06-20 time: 8:40:19.08 UTC ML= 2.0
lat: 47.267N lon: 18.435E h= 12.6 km
erh= 1.6km erz= 1.6km
nr= 27 gap= 75 rms=0.71
Locality: Pátka
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSG	14.3	346	PgU	8:40:22.62	0.13
			Sg	40:24.88	-0.27
CSKK	17.0	309	PgU	8:40:23.12	0.26
PKST	30.3	268	PgU	8:40:25.09	0.14
			Sg	40:29.27	-0.26
BUD	50.6	62	Sg	8:40:34.88	-0.77
TIH	57.9	225	Pg	8:40:29.75	0.08
			Sg	40:36.67	-1.26
PKB1	60.1	153	Pg	8:40:30.02	-0.03

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			Sg	40:37.83	-0.77
MPLH	68.7	261	Pg	8:40:32.19	0.64
			Sg	40:40.43	-0.85
PKS9	76.5	189	Pg	8:40:34.29	1.36
PKB5	78.1	163	Pg	8:40:34.29	1.08
			Sg	40:42.82	-1.41
A339	85.8	317	Pg	8:40:33.82	-0.74
PENC	86.3	48	Sg	8:40:46.11	-0.71
PKB2	90.0	137	Pg	8:40:35.92	0.60
			Sg	40:47.72	-0.26
PKS2	104.6	145	Pn	8:40:37.94	0.40
PKB3	110.2	148	Sn	8:40:52.59	-0.59
MORH	117.9	172	Pn	8:40:39.72	0.52
			Sn	40:52.84	-2.06
PKSM	118.3	172	Pn	8:40:39.14	-0.11
			Sn	40:52.80	-2.19
PSZ	131.5	57	Sn	8:40:58.33	0.41
KOVH	133.5	191	Sn	8:40:58.48	0.13

541.

2019-06-21 time: 8:49:12.14 UTC ML= 1.1
lat: 46.181N lon: 18.285E h= 0.0 km
erh= 0.8km erz= 131km
nr= 7 gap=208 rms=0.09
Locality: Zobákpuszta
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	17.6	234	Pg	8:49:15.19	-0.10
			Sg	49:17.96	0.21
PKSM	27.7	83	Pg	8:49:17.11	0.03
			Sg	49:20.98	0.04
MORH	28.0	82	Pg	8:49:17.14	0.01
			Sg	49:20.98	-0.05
PKSV	32.6	185	Sg	8:49:22.42	-0.08

542.

2019-06-21 time: 9:13:45.77 UTC ML= 1.2
lat: 47.214N lon: 18.289E h= 0.0 km
erh= 4.0km erz= 610km
nr= 8 gap=244 rms=0.43
Locality: Iszkkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	16.7	353	Pg	9:13:49.27	0.52
			Sg	13:50.89	-0.19
PKST	19.9	284	Pg	9:13:48.79	-0.54
			Sg	13:51.60	-0.51
PKSG	21.2	21	Pg	9:13:49.26	-0.30
			Sg	13:52.68	0.18
MPLH	57.0	265	Pg	9:13:56.19	0.23
			Sg	14:04.68	0.78

543.

2019-06-22 time: 20:57:29.68 UTC ML= 2.3
lat: 47.674N lon: 20.289E h= 8.4 km
erh= 2.4km erz= 1.9km
nr= 55 gap= 44 rms=1.38
Locality: Erdőtelek
Comments:

sta	dist	azm	phase	hr mn sec	res
PSZ	40.1	312	Pg	20:57:37.57	0.57
			Sg	57:43.17	0.46
PENC	76.7	280	Pg	20:57:43.68	0.23
			Sg	57:53.58	-0.62
KECS	91.1	9	Pg	20:57:45.76	-0.25
			Sg	57:58.28	-0.48
PKSN	92.1	200	Pg	20:57:45.74	-0.46
BUD	97.6	257	Sg	20:57:59.23	-1.57
PKS7	110.1	231	Pn	20:57:48.70	-0.67

Hypocenter Parameters

Földrengés paraméterek

			Sn	58:02.43	-2.30
A336	114.7	303	PnD	20:57:50.09	0.16
			Sn	58:04.21	-1.52
PKS6	131.5	205	Pn	20:57:52.31	0.28
			Sn	58:06.60	-2.87
PKB2	136.6	216	Pn	20:57:52.73	0.06
VYHS	141.5	310	Pn	20:57:53.36	0.08
			Sn	58:10.94	-0.75
PKSG	146.4	258	Sn	20:58:11.51	-1.26
SRO	149.0	276	ePn	20:57:54.10	-0.11
			eSn	58:14.20	0.85
			Sn	20:58:12.03	-1.51
A338	149.9	285	Pn	20:57:54.84	0.44
PKB1	150.5	229	Sn	20:58:12.45	-2.19
PKS2	154.8	212	Sn	20:58:13.95	-1.11
CSKK	156.7	257	Sn	20:58:14.26	-1.98
PKB3	162.0	211	Pn	20:57:58.39	1.78
PKB5	168.2	224	Sn	58:18.95	1.33
			ePn	20:58:00.20	2.74
LANS	175.0	340	eSn	58:21.70	2.57
			Pn	20:57:58.39	0.85
TRPA	175.7	73	Sn	58:19.29	0.02
			Sn	20:58:24.80	1.47
NIE	194.0	1	Pn	20:58:03.00	3.10
PKS9	194.7	232	Sn	58:27.01	3.53
			Sn	20:58:24.52	-0.83
KOLS	203.1	46	Pn	20:57:59.18	-2.00
MORH	204.9	218	Sn	58:29.64	3.88
			Pn	20:58:04.24	3.00
PKSM	205.4	218	Sn	58:30.07	4.20
			ePn	20:58:02.80	1.46
STHS	206.1	20	eSn	58:27.20	1.17
			Sn	20:58:25.87	-0.57
DRGR	208.0	118	Pn	20:58:06.54	4.11
MPLH	215.0	255	Pn	20:58:10.67	4.76
KOVH	242.8	223	Sn	58:40.89	6.72*
			Pn	20:58:05.68	-1.16
BZS	250.3	156	Pn	20:58:12.59	5.51
PKSV	252.2	218	Sn	58:43.39	7.13*
			Pn	20:58:16.03	-0.40*
KRUC	327.2	298	Pn	20:58:16.59	0.05*
VRAC	328.1	304	Pn	20:58:17.22	0.08*
CONA	332.9	275	Pn	20:58:22.53	0.66*
KRLC	370.8	316	Pn		

544.

2019-06-23 time: 12:04:17.65 UTC ML= 1.8
lat: 45.961N lon: 17.218E h= 29.5 km
erh= 2.0km erz= 1.9km
nr= 18 gap=168 rms=0.45
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
BEHE	66.1	329	Pn	12:04:29.63	0.09
			Sn	04:38.92	0.11
KOVH	69.7	78	Pn	12:04:29.96	-0.03
			Sn	04:40.63	1.02
PKSV	80.6	96	Pn	12:04:30.84	-0.51
			Sn	04:40.99	-1.04
KOGS	92.3	306	Pn	12:04:32.90	0.10
			Sn	04:44.09	-0.52
PTJ	98.0	266	Pn	12:04:33.50	-0.01
			Sn	04:45.14	-0.75
PKSM	113.5	76	Pn	12:04:35.74	0.28
MORH	113.9	76	Pn	12:04:35.78	0.29
PKB5	136.5	59	Pn	12:04:38.30	-0.02
CRES	137.5	264	Pn	12:04:39.73	1.28
			Sn	04:55.28	0.62

545.

2019-06-23 time: 14:09:44.25 UTC ML= 2.5
lat: 47.680N lon: 20.259E h= 5.6 km
erh= 1.8km erz= 1.4km
nr= 53 gap=140 rms=0.94
Locality: Tarnabod
Comments:

sta	dist	azm	phase	hr mn sec	res
PSZ	38.0	314	PgU	14:09:51.91	0.79
			Sg	09:57.53	1.06
PENC	74.3	279	Pg	14:09:58.14	0.57
			Sg	10:07.76	-0.19
KECS	90.9	11	Sg	14:10:12.57	-0.62
PKSN	92.0	199	Pg	14:10:00.18	-0.53
			Sg	10:12.19	-1.35
BUD	95.5	257	Pg	14:10:01.75	0.42
			Sg	10:13.28	-1.37
PKS7	108.8	230	Pg	14:10:03.19	-0.52
			Sg	10:17.01	-1.87
A336	112.4	303	PgD	14:10:04.45	0.10
			Sg	10:18.34	-1.69
PKS6	131.2	204	Pn	14:10:06.74	-0.19
			Sn	10:21.01	-3.61
PKB2	135.8	215	Pn	14:10:07.18	-0.33
			Sn	10:24.25	-1.41
VYHS	139.4	310	Pn	14:10:07.65	-0.30
			Sn	10:25.19	-1.25
PKSG	144.3	257	Pn	14:10:08.95	0.38
			Sn	10:25.89	-1.64
SRO	146.7	276	Pn	14:10:09.26	0.40
			Sn	10:27.54	-0.52
PKB1	149.2	228	Pn	14:10:09.57	0.39
			Sn	10:28.15	-0.47
PKS2	154.1	211	Pn	14:10:10.53	0.73
			Sn	10:26.75	-2.97
CSKK	154.6	257	Pn	14:10:11.25	1.40
			Sn	10:28.77	-1.05
PKB3	161.4	210	Pn	14:10:11.00	0.30
			Sn	10:30.20	-1.13
PKB5	167.1	224	Pn	14:10:12.29	0.88
			Sn	10:33.38	0.79
LANS	173.7	340	ePn	14:10:14.90	2.67
			eSn	10:35.50	1.45
PKST	174.1	254	Pn	14:10:13.30	1.01
PKS9	193.2	231	Pn	14:10:16.44	1.77
			Sn	10:40.57	2.17
NIE	193.4	1	Sn	14:10:38.86	0.44
KOLS	204.3	47	ePn	14:10:15.50	-0.55
			eSn	10:38.30	-2.55
PKSM	204.5	217	Pn	14:10:16.91	0.84
STHS	206.3	21	ePn	14:10:16.80	0.50
EGYH	222.3	262	Sn	14:10:45.40	0.56
KOVH	241.7	223	Pn	14:10:25.03	4.32
RONA	297.5	270	Pn	14:10:26.94	-0.73
			Sn	10:58.60	-2.94*
CONA	330.6	275	Pn	14:10:31.33	-0.46*
			Sn	11:06.85	-2.02*
ARSA	360.3	262	Pn	14:10:35.74	0.25*
			Sn	11:12.65	-2.81*
KRLC	368.8	316	ePn	14:10:36.70	0.14*
MOA	449.7	272	Pn	14:10:45.57	-1.07*
			Sn	11:38.89	3.58*

546.

2019-06-24 time: 2:37:44.11 UTC ML= 1.6
lat: 47.862N lon: 17.281E h= 8.7 km
erh= 1.5km erz= 2.2km
nr= 20 gap= 68 rms=0.57
Locality: Mosonmagyaróvár
Comments:

Földrengés paraméterek

sta	dist	azm	phase	hr mn sec	res
A339	28.3	97	Pg	2:37:49.85	0.46
			Sg	37:54.43	0.92
EGYH	49.6	176	Pg	2:37:53.41	0.31
			Sg	37:59.62	-0.49
MODS	56.9	360	ePg	2:37:55.10	0.71
			eSg	38:05.60	3.19*
SOP	57.7	250	Pg	2:37:54.22	-0.31
			Sg	38:01.96	-0.70
RONA	76.0	256	Pg	2:37:58.05	0.28
			Sg	38:07.85	-0.57
SRO	77.4	94	Pg	2:37:57.71	-0.31
			Sg	38:08.25	-0.63
MPLH	79.3	166	Pg	2:37:58.73	0.37
			Sg	38:09.16	-0.31
A338	81.8	78	Pg	2:37:58.45	-0.35
			Sg	38:08.73	-1.53
CONA	106.4	274	Pg	2:38:03.73	0.56
VYHS	135.3	59	ePn	2:38:07.30	0.40
			eSn	38:22.30	-2.39*
KRUC	148.7	334	Sn	2:38:26.70	-0.95
ARSA	148.8	243	Sn	2:38:28.21	0.54

547.

2019-06-24 time: 3:08:53.26 UTC ML= 2.2
lat: 47.823N lon: 17.311E h= 12.9 km
erh= 1.5km erz= 1.4km
nr= 32 gap= 58 rms=0.78
Locality: Máriakálnok
Comments:

sta	dist	azm	phase	hr mn sec	res
A339	25.8	88	Pg	3:08:59.41	0.99
			Sg	09:03.23	0.79
EGYH	45.1	178	Sg	3:09:08.65	0.47
SOP	58.5	255	Pg	3:09:03.98	0.01
			Sg	09:11.23	-1.09
A337	58.9	37	Pg	3:09:04.67	0.63
			Sg	09:11.38	-1.06
MODS	61.3	358	ePg	3:09:04.00	-0.45
			eSg	09:11.30	-1.88
MPLH	74.6	167	Pg	3:09:07.08	0.30
			Sg	09:16.57	-0.75
SRO	75.1	91	Pg	3:09:06.75	-0.11
			Sg	09:16.47	-1.00
SMOL	77.3	6	ePg	3:09:08.50	1.23
			eSg	09:18.80	0.61
A338	80.7	75	Pg	3:09:07.96	0.10
			Sg	09:17.67	-1.58
PKST	83.0	139	Pg	3:09:07.99	-0.28
CSKK	87.8	126	Sg	3:09:19.64	-1.83
PKSG	94.3	121	P*	3:09:10.07	-0.06
CONA	109.1	276	Pn	3:09:12.66	0.42
A336	133.9	70	Pn	3:09:16.03	0.69
			Sn	09:31.94	-0.62
VYHS	135.8	57	Sn	3:09:31.20	-1.78
ARSA	148.9	245	Sn	3:09:36.67	0.79
KRUC	153.6	334	Pn	3:09:18.20	0.41
			Sn	09:35.66	-1.26
PKS9	155.7	152	Sn	3:09:36.74	-0.66
PKB1	160.8	136	Pn	3:09:19.70	1.00
KOGS	172.7	208	Sn	3:09:40.08	-1.09
VRAC	173.5	342	Pn	3:09:20.89	0.62
			Sn	09:40.73	-0.61

548.

2019-06-24 time: 8:29:46.21 UTC ML= 1.2
lat: 46.132N lon: 18.059E h= 0.0 km
erh= 3.1km erz= 423km
nr= 8 gap=287 rms=0.33
Locality: Hetvehely
Comments: probably explosion

Hypocenter Parameters

sta	dist	azm	phase	hr mn sec	res
KOVH	5.8	147	PgU	8:29:47.20	-0.05
			Sg	29:48.57	0.52
PKSV	30.9	151	Pg	8:29:51.66	-0.08
			Sg	29:55.39	-0.65
PKSM	45.8	79	Pg	8:29:54.64	0.25
			Sg	30:00.61	-0.16
MORH	46.1	78	Pg	8:29:54.71	0.26
			Sg	30:00.23	-0.64

549.

2019-06-24 time: 8:38:40.10 UTC ML= 1.5
lat: 48.613N lon: 20.741E h= 0.0 km
erh= 2.5km erz= 2.6km
nr= 9 gap=147 rms=0.48
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.8	232	Pg	8:38:44.61	0.27
			Sg	38:46.85	-0.80
PSZ	99.6	219	Pg	8:38:58.09	0.20
LANS	110.9	303	Pg	8:39:00.25	0.36
			Sg	39:14.80	-0.53
KOLS	118.1	72	Sg	8:39:17.23	-0.41
A336	135.7	252	Sn	8:39:21.96	-0.77
VYHS	141.3	265	Pn	8:39:05.37	0.63
			Sn	39:23.44	-0.53

550.

2019-06-24 time: 8:58:03.05 UTC ML= 1.1
lat: 46.161N lon: 18.314E h= 0.0 km
erh= 2.4km erz= 472km
nr= 8 gap=192 rms=0.37
Locality: Zobákpuszta
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	18.4	244	PgU	8:58:06.12	-0.22
			Sg	58:08.35	-0.56
PKSM	25.9	77	Pg	8:58:07.87	0.20
			Sg	58:10.89	-0.39
MORH	26.2	76	Pg	8:58:08.08	0.35
			Sg	58:10.61	-0.77
PKSV	30.6	189	Pg	8:58:08.83	0.31
			Sg	58:13.05	0.26

551.

2019-06-24 time: 9:16:26.32 UTC ML= 0.8
lat: 47.238N lon: 18.239E h= 0.0 km
erh= 2.7km erz= 335km
nr= 6 gap=245 rms=0.20
Locality: Iszkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	14.1	7	Pg	9:16:29.01	0.18
			Sg	16:31.04	0.26
PKST	15.7	279	Pg	9:16:29.19	0.08
			Sg	16:30.83	-0.46
PKSG	20.6	34	Pg	9:16:29.87	-0.13
			Sg	16:32.72	-0.16

552.

2019-06-24 time: 10:30:12.35 UTC ML= 1.3
lat: 47.820N lon: 19.082E h= 0.0 km
erh= 2.5km erz= 310km
nr= 7 gap=244 rms=0.20
Locality: Verőce
Comments: probably explosion

Hypocenter Parameters

sta	dist	azm	phase	hr mn sec	res
PENC	15.3	103	Pg	10:30:15.27	0.18
			Sg	30:16.39	-0.83
A336	46.3	352	Pg	10:30:20.62	0.00
			Sg	30:27.30	0.23
PSZ	61.8	80	Pg	10:30:23.46	0.08
			Sg	30:31.88	-0.10
VYHS	77.1	346	Pg	10:30:25.92	-0.20

553.

2019-06-25 time: 7:17:52.99 UTC ML= 1.5
lat: 47.295N lon: 17.651E h= 0.0 km
erh= 1.3km erz= 2.7km
nr= 10 gap=140 rms=0.35
Locality: Homokbödöge
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
MPLH	16.2	211	Pg	7:17:55.93	0.04
			Sg	17:58.06	-0.09
EGYH	27.7	299	Pg	7:17:58.28	0.34
			Sg	18:01.45	-0.35
PKST	29.3	98	Pg	7:17:58.52	0.31
			Sg	18:02.98	0.69
CSKK	46.7	81	Sg	7:18:07.21	-0.62
PKSG	56.9	79	Pg	7:18:02.91	-0.24
			Sg	18:11.06	-0.02
MORH	141.9	148	Sn	7:18:36.37	-0.64

554.

2019-06-25 time: 7:32:56.48 UTC ML= 1.1
lat: 47.863N lon: 19.149E h= 0.0 km
erh= 2.7km erz= 698km
nr= 8 gap=157 rms=0.50
Locality: Nőtincs
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	12.8	129	Pg	7:32:58.68	-0.08
			Sg	33:00.01	-0.54
A336	42.7	345	Sg	7:33:09.45	-0.58
PSZ	56.1	84	Pg	7:33:06.82	0.32
			Sg	33:14.46	0.15
A338	61.8	286	Sg	7:33:15.86	-0.27
VYHS	73.9	342	Pg	7:33:10.48	0.80
			Sg	33:19.18	-0.79

555.

2019-06-25 time: 8:28:51.96 UTC ML= 2.1
lat: 47.906N lon: 19.414E h= 0.0 km
erh= 2.1km erz= 5.0km
nr= 10 gap=130 rms=0.60
Locality: Becske
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	16.2	218	Pg	8:28:54.71	-0.15
			Sg	28:56.88	-0.24
PSZ	35.9	88	Pg	8:28:58.22	-0.16
			Sg	29:03.49	0.10
A336	47.8	320	Pg	8:29:01.57	1.08
			Sg	29:06.47	-0.67
VYHS	78.2	327	Sg	8:29:16.34	-0.49
KECS	102.3	51	Pg	8:29:10.55	0.32
			Sg	29:23.01	-1.47
MODS	167.3	288	eSn	8:29:42.20	0.58

Földrengés paraméterek

556.

2019-06-25 time: 11:41:30.24 UTC ML= 1.5
lat: 48.609N lon: 20.754E h= 0.0 km
erh= 2.5km erz= 4.0km
nr= 15 gap=125 rms=0.72
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.3	235	Pg	11:41:34.89	0.31
			Sg	41:37.77	-0.19
STHS	96.7	22	ePg	11:41:52.00	4.50
			eSg	42:00.60	-0.36
PSZ	99.9	220	Pg	11:41:48.40	0.32
			Sg	42:01.83	-0.16
LANS	111.9	303	Pg	11:41:50.41	0.18
			Sg	42:04.66	-1.15
KOLS	117.3	72	Sg	11:42:06.60	-0.93
VYHS	142.2	265	Pn	11:41:55.67	0.67
			Sn	42:13.03	-1.29

557.

2019-06-26 time: 7:16:29.85 UTC ML= 0.8
lat: 47.229N lon: 18.275E h= 0.0 km
erh= 4.2km erz= 503km
nr= 5 gap=255 rms=0.23
Locality: Iszkkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	14.9	356	Pg	7:16:32.64	0.12
			Sg	16:34.93	0.33
PKST	18.6	280	Sg	7:16:35.52	-0.23
PKSG	20.1	26	Pg	7:16:33.46	0.03
			Sg	16:35.76	-0.47

558.

2019-06-26 time: 8:55:09.15 UTC ML= 1.5
lat: 48.340N lon: 18.545E h= 0.0 km
erh= 2.1km erz= 3.6km
nr= 11 gap=134 rms=0.58
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	27.5	52	Pg	8:55:14.76	0.71
			Sg	55:18.77	0.89
A336	35.7	109	Pg	8:55:15.11	-0.41
			Sg	55:19.85	-0.65
A338	38.9	202	Pg	8:55:16.46	0.37
			Sg	55:21.84	0.33
PSZ	110.8	115	Pg	8:55:29.02	0.08
			Sg	55:41.97	-2.41
LANS	112.8	37	Pg	8:55:29.19	-0.10
MORC	175.8	335	Pn	8:55:38.03	-0.07
			Sn	55:59.42	-1.26

559.

2019-06-26 time: 9:09:35.20 UTC ML= 1.4
lat: 48.606N lon: 20.625E h= 0.0 km
erh= 1.2km erz= 0.9km
nr= 8 gap=270 rms=0.22
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	17.1	217	Pg	9:09:38.37	0.12
			Sg	09:40.74	0.11
PSZ	93.7	215	Pg	9:09:51.98	0.04
			Sg	10:04.78	-0.22

Földrengés paraméterek

LANS 104.2 306 ePg 9:09:54.00 0.18
eSg 10:08.60 0.27
VYHS 132.6 265 Pn 9:09:58.52 -0.25
Sn 10:16.08 -1.08

560.

2019-06-26 time: 11:38:36.27 UTC ML= 1.7
lat: 47.322N lon: 18.447E h= 0.0 km
erh= 3.5km erz= 724km
nr= 6 gap=202 rms=0.43
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSG	8.9	331	PgU	11:38:37.94			0.08
			Sg	38:38.58			-0.52
CSKK	14.9	288	Pg	11:38:39.42			0.49
			Sg	38:41.31			0.32
PKST	32.0	257	Sg	11:38:45.73			-0.72
PKSM	124.3	173	Sg	11:39:15.46			-0.32

561.

2019-06-27 time: 7:29:14.35 UTC ML= 0.9
lat: 46.156N lon: 18.311E h= 0.0 km
erh= 1.8km erz= 304km
nr= 6 gap=190 rms=0.19
Locality: Vasas
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KOVH	18.0	245	Sg	7:29:19.78			-0.29
PKSM	26.2	76	Pg	7:29:19.17			0.13
			Sg	29:22.69			0.00
MORH	26.5	75	Pg	7:29:19.17			0.08
			Sg	29:22.39			-0.40
PKSV	30.1	189	Sg	7:29:24.10			0.19

562.

2019-06-27 time: 7:42:07.70 UTC ML= 1.2
lat: 46.139N lon: 18.044E h= 0.0 km
erh= 2.2km erz= 246km
nr= 6 gap=290 rms=0.15
Locality: Hetvehely
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KOVH	7.1	143	Pg	7:42:08.95			-0.01
			Sg	42:10.16			0.21
PKSV	32.2	150	Sg	7:42:17.55			-0.37
PKSM	46.8	80	Pg	7:42:16.16			0.11
			Sg	42:22.38			-0.19
MORH	47.1	80	Pg	7:42:16.13			0.02

563.

2019-06-27 time: 8:02:43.08 UTC ML= 1.1
lat: 47.209N lon: 18.277E h= 0.0 km
erh= 0.8km erz= 1.9km
nr= 9 gap=143 rms=0.21
Locality: Iszkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	17.2	356	Pg	8:02:46.13			-0.01
			Sg	02:48.21			-0.32
PKST	19.2	287	PgU	8:02:46.50			-0.01
			Sg	02:49.41			0.23
PKSG	22.0	23	Pg	8:02:47.00			-0.01
			Sg	02:50.62			0.54
MORH	114.0	166	Pg	8:03:03.30			-0.13
PKSM	114.3	166	Pg	8:03:03.65			0.16

Hypocenter Parameters

VYHS 148.8 16 Sn 8:03:28.10 -0.53

564.

2019-06-27 time: 9:05:05.35 UTC ML= 1.3
lat: 47.543N lon: 18.499E h= 0.0 km
erh= 2.0km erz=11.0km
nr= 12 gap=107 rms=0.60
Locality: Szárliget
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSG	18.7	206	Pg	9:05:08.95			0.26
			Sg	05:11.46			0.17
CSKK	26.9	222	Pg	9:05:09.95			-0.20
			Sg	05:13.92			0.02
SRO	33.2	335	Sg	9:05:16.80			0.91
BUD	40.1	99	Sg	9:05:18.62			0.53
PKST	47.2	228	Pg	9:05:13.77			-0.01
			Sg	05:20.32			-0.03
A336	85.4	26	Sg	9:05:30.87			-1.63
VYHS	108.7	13	Pg	9:05:25.18			0.41
			Sg	05:39.05			-0.86
PKSM	148.4	176	Sn	9:05:47.99			-2.81

565.

2019-06-27 time: 9:49:06.42 UTC ML= 1.4
lat: 48.609N lon: 20.559E h= 0.0 km
erh= 3.1km erz= 384km
nr= 6 gap=297 rms=0.23
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	15.0	201	Pg	9:49:08.76			-0.34
			Sg	49:11.12			-0.06
PSZ	91.3	213	Pg	9:49:22.83			0.11
			Sg	49:35.77			0.34
VYHS	127.9	264	Pg	9:49:29.44			0.18
			Sg	49:46.87			-0.20

566.

2019-06-27 time: 12:59:01.87 UTC ML= 1.7
lat: 47.104N lon: 19.348E h= 0.0 km
erh= 4.7km erz= 719km
nr= 7 gap=184 rms=0.48
Locality: Tatárszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKS7	15.6	246	Pg	12:59:04.98			0.33
			Sg	59:06.49			-0.33
PENC	76.5	356	Pg	12:59:16.36			0.83
PSZ	99.4	24	Pg	12:59:19.32			-0.31
MORH	112.5	209	Pg	12:59:22.03			0.07
PKSM	113.0	209	Pg	12:59:22.10			0.05
A336	128.2	348	Pg	12:59:23.99			-0.78

567.

2019-06-27 time: 13:18:42.24 UTC ML= 1.8
lat: 47.082N lon: 19.435E h= 0.0 km
erh= 2.1km erz= 3.3km
nr= 9 gap=192 rms=0.42
Locality: Tatárszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKS7	21.2	260	Pg	13:18:46.53			0.51
			Sg	18:48.82			-0.15
PENC	79.6	352	Pg	13:18:56.95			0.50
PSZ	99.2	20	Pg	13:18:59.91			-0.05

Hypocenter Parameters

PKS9 104.0 238 Pg 13:19:00.92 0.12
MORH 113.7 212 Pg 13:19:02.65 0.10
PKSM 114.2 212 Pg 13:19:02.37 -0.26
Sg 19:17.43 -1.11
A336 132.1 346 Pn 13:19:05.07 -0.67

568.

2019-06-27 time: 13:35:38.68 UTC ML= 1.5
lat: 47.078N lon: 19.416E h= 0.0 km
erh= 3.4km erz= 559km
nr= 6 gap=191 rms=0.33
Locality: Tatárszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKS7	19.7	260	Pg	13:35:42.55			0.35
			Sg		35:44.37		-0.57
PENC	79.8	353	Pg	13:35:53.39			0.45
PSZ	100.1	21	Pg	13:35:56.22			-0.34
MORH	112.6	212	Pg	13:35:58.74			-0.05
PKSM	113.1	212	Pg	13:35:58.74			-0.14

569.

2019-06-28 time: 11:01:40.21 UTC ML= 1.8
lat: 47.327N lon: 18.434E h= 0.0 km
erh= 1.9km erz= 2.6km
nr= 6 gap=160 rms=0.28
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSG	8.0	335	PgU	11:01:41.96			0.33
			Sg		01:42.52		-0.22
CSKK	13.8	287	Sg	11:01:44.62			0.04
MORH	124.5	173	Sg	11:02:19.93			0.14
PKSM	124.9	173	Sg	11:02:19.68			-0.24
VYHS	133.2	13	Sn	11:02:21.79			-0.51

570.

2019-06-30 time: 21:13:08.16 UTC ML= 1.0
lat: 45.525N lon: 17.942E h= 16.4 km
erh= 6.8km erz= 2.6km
nr= 9 gap=179 rms=0.45
Locality: Croatia
Comments:

sta	dist	azm	phase	hr	mn	sec	res
PKSV	47.1	31	Pg	21:13:17.36			0.30
			Sg		13:23.34		-0.67
KOVH	63.9	11	Pg	21:13:19.65			-0.28
			Sg		13:29.64		0.53
PKSM	93.7	35	P*	21:13:24.94			0.31
			S*		13:36.99		-0.48
MORH	94.2	35	P*	21:13:25.18			0.48
			S*		13:37.25		-0.35
BLY	104.8	215	Sn	21:13:39.43			-0.79

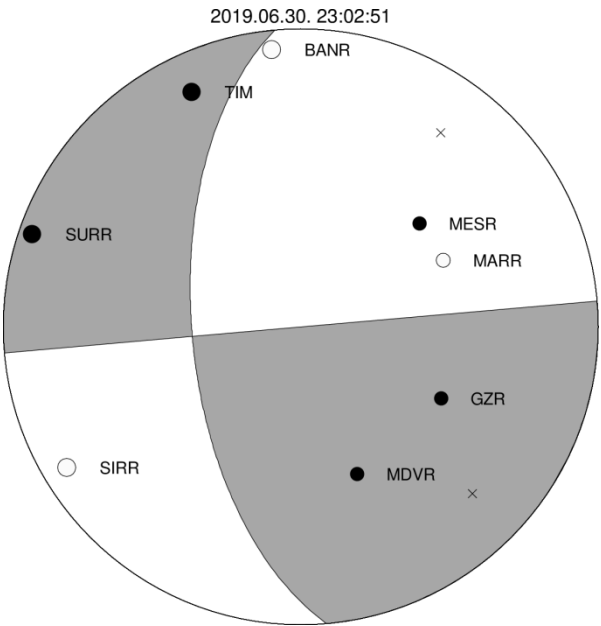
571.

2019-06-30 time: 23:02:51.19 UTC ML= 1.5
lat: 46.009N lon: 21.040E h= 8.4 km
erh= 2.6km erz= 2.2km
nr= 21 gap=109 rms=0.77
Locality: Romania
Comments:

sta	dist	azm	phase	hr	mn	sec	res
TIM	33.4	155	PgC	23:02:58.31			0.96
			Sg		03:01.90		-0.25
SIRR	55.8	59	PgD	23:03:01.32			0.05
			Sg		03:08.20		-0.94

Földrengés paraméterek

BZS	62.6	134	Pg	23:03:02.89			0.42
			Sg		03:10.30		-0.96
BANR	70.1	174	PgD	23:03:04.25			0.45
			Sg		03:12.60		-1.03
SURR	88.9	109	PgC	23:03:06.85			-0.28
			Sg		03:18.20		-1.37
PKS6	131.2	300	Sn	23:03:29.06			-1.86
FRGS	136.6	225	Pn	23:03:14.74			0.57
			Sn		03:30.80		-1.30
MDVR	146.3	159	PnC	23:03:16.40			1.01
			Sn		03:34.20		-0.06
GZR	151.6	117	PnC	23:03:16.59			0.54
			Sn		03:35.80		0.36
DRGR	155.2	56	Pn	23:03:16.47			-0.02
			Sn		03:35.41		-0.82
MARR	176.4	65	PnD	23:03:19.63			0.49
MESR	193.6	49	PnC	23:03:22.65			1.36



572.

2019-07-01 time: 7:36:39.57 UTC ML= 1.1
lat: 47.200N lon: 18.295E h= 0.0 km
erh= 1.2km erz= 428km
nr= 12 gap=148 rms=0.35
Locality: Székesfehérvár
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	18.4	352	Pg	7:36:42.74			-0.10
			Sg		36:45.31		-0.09
PKST	20.8	288	Pg	7:36:43.19			-0.10
			Sg		36:46.03		-0.16
PKSG	22.5	19	Pg	7:36:43.70			0.11
			Sg		36:46.55		-0.18
MPLH	57.4	267	Pg	7:36:50.80			0.99
			Sg		36:57.63		-0.17
MORH	112.6	166	Pg	7:36:59.65			-0.02
			Sg		37:15.09		-0.27
PKSM	113.0	166	Pg	7:36:59.96			0.22
			Sg		37:14.51		-0.97

Földrengés paraméterek

573.

2019-07-01 time: 8:00:49.61 UTC ML= 2.2
lat: 48.275N lon: 21.277E h= 0.0 km
erh= 5.3km erz= 5.8km
nr= 9 gap=149 rms=0.92
Locality: Sima
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	63.0	292	Pg	8:01:00.34	-0.53
			Sg	01:08.13	-1.52
TRPA	95.2	100	Pg	8:01:06.23	-0.38
			Sg	01:19.68	-0.19
KOLS	103.7	45	Pg	8:01:09.09	0.95
PSZ	110.3	249	Pg	8:01:10.60	1.28
			Sg	01:23.27	-1.42
A336	169.2	268	Sn	8:01:40.61	0.92
VYHS	182.4	278	Sn	8:01:42.56	-0.07

574.

2019-07-01 time: 8:19:52.40 UTC ML= 1.2
lat: 48.655N lon: 18.605E h= 0.0 km
erh= 4.5km erz= 5.5km
nr= 11 gap=162 rms=0.81
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	24.7	136	Pg	8:19:57.71	0.90
			Sg	20:00.38	0.12
A336	55.2	148	Sg	8:20:09.61	-0.34
MODS	102.9	252	ePg	8:20:10.70	-0.08
			eSg	20:26.80	1.69
PENC	108.5	152	Sg	8:20:25.74	-1.13
PSZ	126.0	131	Pg	8:20:15.68	0.79
			Sg	20:30.98	-1.46
MORC	146.8	328	Pn	8:20:17.99	0.25
			Sn	20:36.28	-1.23
VRAC	164.2	296	Sn	8:20:40.74	-0.62

575.

2019-07-02 time: 7:12:03.99 UTC ML= 1.5
lat: 48.566N lon: 20.693E h= 0.0 km
erh= 7.8km erz= 3.6km
nr= 6 gap=274 rms=0.40
Locality: Bódvaszilas
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	17.9	239	Pg	7:12:07.49	0.31
			Sg	12:10.08	0.41
PSZ	93.3	219	Sg	7:12:32.98	-0.67
LANS	110.9	306	Pg	7:12:23.42	-0.38
VYHS	137.4	267	Pn	7:12:28.51	0.36
			Sn	12:46.67	-0.33

576.

2019-07-02 time: 7:39:00.02 UTC ML= 0.3
lat: 47.293N lon: 18.334E h= 0.0 km
erh= 1.6km erz= 260km
nr= 6 gap=239 rms=0.15
Locality: Magyaralmás
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	9.5	324	Pg	7:39:01.73	0.01
			Sg	39:02.95	-0.10
PKSG	11.7	21	Pg	7:39:02.02	-0.09
			Sg	39:03.99	0.24
PKST	23.0	260	Pg	7:39:04.02	-0.11

Hypocenter Parameters

Sg 39:07.69 0.35

577.

2019-07-02 time: 7:46:18.18 UTC ML= 1.1
lat: 47.292N lon: 18.324E h= 0.0 km
erh= 0.8km erz= 232km
nr= 8 gap=144 rms=0.16
Locality: Magyaralmás
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	9.3	329	Pg	7:46:19.83	0.00
			Sg	46:21.06	-0.07
PKSG	12.2	24	Pg	7:46:20.25	-0.10
			Sg	46:22.18	0.13
PKST	22.3	261	Pg	7:46:22.26	0.11
			Sg	46:25.16	-0.09
PKSM	122.5	169	Pg	7:46:40.12	0.07
			Sg	46:55.18	-1.93*

578.

2019-07-02 time: 7:54:28.68 UTC ML= 1.6
lat: 47.856N lon: 19.138E h= 0.0 km
erh= 1.9km erz= 623km
nr= 11 gap=139 rms=0.51
Locality: Szendeheley
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	13.0	124	Pg	7:54:30.98	-0.03
			Sg	54:32.76	-0.06
A336	43.2	346	Pg	7:54:36.78	0.38
			Sg	54:42.68	0.25
PSZ	57.0	83	Sg	7:54:46.50	-0.32
VYHS	74.4	342	Pg	7:54:42.63	0.65
			Sg	54:51.84	-0.50
KECS	122.2	55	ePg	7:54:49.80	-0.70
			eSg	55:06.40	-1.12

579.

2019-07-02 time: 9:09:00.87 UTC ML= 1.1
lat: 47.837N lon: 19.875E h= 0.0 km
erh= 7.5km erz= ***km
nr= 7 gap=207 rms=0.89
Locality: Gyöngyösoroszi
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	9.2	9	Pg	9:09:02.85	0.34
			Sg	09:04.66	0.88
PENC	44.8	263	Sg	9:09:14.99	-0.11
KECS	85.0	32	Sg	9:09:27.59	-0.30
VYHS	106.4	313	Sg	9:09:32.30	-2.38

580.

2019-07-02 time: 9:25:47.81 UTC ML= 0.9
lat: 47.210N lon: 18.284E h= 0.0 km
erh= 2.9km erz= 384km
nr= 6 gap=264 rms=0.22
Locality: Iszka-szentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	17.1	354	Pg	9:25:51.29	0.43
			Sg	25:53.05	-0.18
PKST	19.6	286	Pg	9:25:51.19	-0.13
			Sg	25:54.09	0.04
PKSG	21.7	22	Pg	9:25:51.55	-0.14
			Sg	25:54.65	-0.06

Hypocenter Parameters

581.

2019-07-03 time: 5:43:57.86 UTC ML= 1.2
lat: 47.803N lon: 19.954E h= 0.0 km
erh= 7.5km erz= ***km
nr= 6 gap=241 rms=0.65
Locality: Gyöngyössolymos
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	13.6	341	Pg	5:44:00.88	0.60
			Sg	44:02.63	0.46
PENC	50.4	268	Sg	5:44:13.75	-0.11
KECS	85.4	28	Sg	5:44:24.21	-0.78
A336	85.8	304	Sg	5:44:23.90	-1.22
VYHS	113.2	313	eSg	5:44:34.10	0.26

582.

2019-07-03 time: 7:56:18.67 UTC ML= 1.0
lat: 47.057N lon: 18.093E h= 0.0 km
erh= 2.6km erz= 726km
nr= 8 gap=135 rms=0.54
Locality: Balatonkenese
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	22.9	349	Pg	7:56:22.60	-0.16
			Sg	56:26.12	0.18
CSKK	36.3	21	Pg	7:56:25.69	0.53
			Sg	56:29.62	-0.60
MPLH	43.8	287	Sg	7:56:32.07	-0.53
PKSM	102.9	156	Pg	7:56:37.80	0.75
			Sg	56:50.66	-0.72
KOVH	107.7	180	Sg	7:56:52.36	-0.54

583.

2019-07-03 time: 8:25:30.00 UTC ML= 1.9
lat: 47.304N lon: 18.462E h= 0.0 km
erh= 6.0km erz= 5.7km
nr= 6 gap=249 rms=0.65
Locality: Pátka
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	11.2	331	PgU	8:25:32.40	0.40
			Sg	25:32.90	-0.66
CSKK	16.6	294	Pg	8:25:33.65	0.68
			Sg	25:35.39	0.11
PKST	32.8	261	Sg	8:25:39.59	-0.82
VYHS	135.3	12	Sn	8:26:11.42	-1.12

584.

2019-07-03 time: 8:38:21.86 UTC ML= 0.6
lat: 47.252N lon: 18.252E h= 0.0 km
erh= 0.6km erz=76.9km
nr= 5 gap=239 rms=0.04
Locality: Kincsesbánya
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	12.4	3	Sg	8:38:25.82	0.03
PKST	16.5	273	Pg	8:38:24.84	0.03
			Sg	38:27.02	-0.09
PKSG	18.7	34	Pg	8:38:25.20	-0.01
			Sg	38:27.81	-0.01

Földrengés paraméterek

585.

2019-07-03 time: 8:57:09.56 UTC ML= 1.8
lat: 48.540N lon: 19.341E h= 0.0 km
erh= 1.9km erz= 5.3km
nr= 10 gap=191 rms=0.61
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	37.6	262	Pg	8:57:16.56	0.29
			Sg	57:21.20	-0.31
A336	42.4	217	Pg	8:57:17.77	0.64
			Sg	57:23.19	0.14
PSZ	80.4	149	Pg	8:57:23.94	0.03
			Sg	57:34.57	-0.54
PENC	83.4	183	Sg	8:57:35.61	-0.45
KECS	84.8	94	Pg	8:57:25.41	0.71
			Sg	57:35.87	-0.65
MODS	153.7	263	ePn	8:57:34.30	-1.46
			eSn	57:52.10	-4.10*

586.

2019-07-04 time: 6:07:19.41 UTC ML= 1.5
lat: 47.336N lon: 18.460E h= 0.0 km
erh= 2.2km erz= 4.0km
nr= 8 gap=161 rms=0.45
Locality: Lovasberény
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	8.1	320	Pg	6:07:21.10	0.25
			Sg	07:21.72	-0.25
CSKK	15.3	281	Pg	6:07:22.37	0.22
			Sg	07:23.57	-0.71
PKST	33.3	255	Sg	6:07:30.60	0.61
MORH	125.4	174	Sg	6:07:59.21	-0.05
PKSM	125.8	174	Sg	6:07:59.45	0.06
VYHS	131.8	12	Sn	6:08:00.00	-1.17

587.

2019-07-04 time: 7:43:36.50 UTC ML= 2.2
lat: 47.354N lon: 18.503E h= 0.0 km
erh= 1.2km erz= 343km
nr= 8 gap=164 rms=0.25
Locality: Lovasberény
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	9.5	297	PgU	7:43:38.49	0.29
			Sg	43:39.10	-0.43
CSKK	18.4	273	Pg	7:43:39.99	0.20
			Sg	43:41.95	-0.40
PKST	37.0	253	Sg	7:43:48.26	0.00
MORH	126.9	175	Sg	7:44:16.77	-0.09
PKSM	127.4	175	Sg	7:44:16.94	-0.05
VYHS	129.2	11	Sg	7:44:17.46	-0.12

588.

2019-07-04 time: 7:57:39.08 UTC ML= 2.3
lat: 48.230N lon: 21.242E h= 0.0 km
erh= 5.4km erz= 668km
nr= 5 gap=253 rms=0.31
Locality: Tállya
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	7.4	358	PgU	7:57:40.46	0.06
			Sg	57:40.85	-0.58
KECS	62.8	297	Pg	7:57:50.65	0.36
			Sg	57:59.02	-0.01

Földrengés paraméterek

PSZ 106.2 251 Sg 7:58:12.52 -0.33

589.

2019-07-04 time: 8:01:19.72 UTC ML= 1.9
lat: 48.240N lon: 18.768E h= 0.0 km
erh= 1.8km erz= 2.9km
nr= 21 gap= 68 rms=0.89
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
A336	17.1	93	Pg	8:01:23.01	0.22
			Sg	01:25.76	0.59
VYHS	28.7	10	Pg	8:01:25.62	0.77
			Sg	01:29.60	0.76
A338	39.8	231	Pg	8:01:27.20	0.37
			Sg	01:33.51	1.14
SRO	58.3	216	Sg	8:01:38.97	0.71
PENC	63.0	143	Pg	8:01:31.25	0.28
			Sg	01:39.27	-0.47
A337	72.7	270	Sg	8:01:43.26	0.43
PSZ	91.2	113	Sg	8:01:47.62	-1.10
PKSG	98.5	197	Sg	8:01:50.60	-0.42
CSKK	104.7	201	Pg	8:01:39.08	0.67
			Sg	01:51.67	-1.32
MODS	111.6	278	ePg	8:01:38.20	-1.45
			eSg	01:53.20	-2.00
KECS	130.1	78	Sg	8:01:58.25	-2.83
EGYH	141.2	230	Sn	8:02:03.13	-0.45
MPLH	150.5	218	Sn	8:02:04.22	-1.43
ABAH	183.6	88	Sn	8:02:14.00	1.02
MORC	193.0	332	Sn	8:02:13.45	-1.63

590.

2019-07-04 time: 8:03:53.66 UTC ML= 1.4
lat: 48.571N lon: 20.761E h= 0.0 km
erh= 2.3km erz= 4.5km
nr= 9 gap=150 rms=0.47
Locality: Tornanádaska
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	22.6	244	Pg	8:03:58.08	0.39
			Sg	04:00.04	-0.80
ABAH	46.8	131	Pg	8:04:01.86	-0.15
			Sg	04:08.07	-0.45
PSZ	97.0	222	Pg	8:04:11.67	0.69
			Sg	04:24.19	-0.31
NIE	99.8	341	Pg	8:04:11.36	-0.13
VYHS	142.5	267	Pn	8:04:18.63	0.18
			Sn	04:35.82	-1.98

591.

2019-07-04 time: 8:26:53.39 UTC ML= 1.2
lat: 46.177N lon: 18.285E h= 0.0 km
erh= 1.0km erz= 149km
nr= 8 gap=206 rms=0.11
Locality: Zobákpusztá
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	17.4	235	Pg	8:26:56.36	-0.14
			Sg	26:59.01	0.08
PKSM	27.7	82	Pg	8:26:58.35	0.01
			Sg	27:02.26	0.05
MORH	28.0	81	Pg	8:26:58.39	0.00
			Sg	27:02.37	0.07
PKSV	32.2	185	Pg	8:26:59.25	0.11
			Sg	27:03.19	-0.44

Hypocenter Parameters

592.

2019-07-04 time: 9:11:45.15 UTC ML= 1.0
lat: 47.212N lon: 18.276E h= 0.0 km
erh= 2.0km erz= 3.1km
nr= 10 gap=142 rms=0.54
Locality: Iszkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	16.8	356	Pg	9:11:48.30	0.15
			Sg	11:49.95	-0.55
PKST	19.0	286	Pg	9:11:49.02	0.47
			Sg	11:50.69	-0.51
PKSG	21.8	23	Pg	9:11:49.09	0.05
			Sg	11:52.71	0.64
PKSM	114.6	166	Pg	9:12:06.04	0.42
			Sg	12:19.45	-2.13
VYHS	148.6	16	Pn	9:12:10.43	-0.27
			Sn	12:29.50	-1.14

593.

2019-07-04 time: 10:18:37.80 UTC ML= 2.2
lat: 46.206N lon: 16.063E h= 15.7 km
erh= 1.7km erz= 1.4km
nr= 20 gap= 99 rms=0.59
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
KOGS	30.6	28	iPg	10:18:44.18	0.24
			iSg	18:48.42	-0.31
PTJ	34.9	193	Pg	10:18:44.24	-0.39
			Sg	18:48.92	-1.04
GOLS	40.2	237	iPg	10:18:46.18	0.67
GROS	51.7	303	iPg	10:18:47.73	0.28
			eSg	18:54.64	-0.33
BEHE	62.3	62	Pg	10:18:49.38	0.11
			Sg	18:57.94	-0.27
PDKS	83.9	259	iP*	10:18:53.27	0.44
PERS	87.1	303	P*	10:18:53.21	-0.11
			S*	19:04.08	-1.35
SOKA	95.0	304	P*	10:18:54.53	0.00
			S*	19:06.44	-1.14
OBKA	121.3	286	Sn	10:19:12.59	-1.09
ARSA	123.3	340	Pn	10:18:58.98	0.78
			Sn	19:14.65	0.54
KOVH	157.9	95	Pn	10:19:02.70	0.18
			Sn	19:20.26	-1.54
PKB4	198.3	81	Pn	10:19:08.45	0.90

594.

2019-07-04 time: 13:10:15.88 UTC ML= 1.5
lat: 46.792N lon: 17.330E h= 0.0 km
erh= 1.7km erz= 616km
nr= 10 gap=151 rms=0.48
Locality: Keszthely
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
MPLH	44.9	21	Pg	13:10:23.52	-0.38
			Sg	10:29.95	-0.20
BEHE	55.5	230	Pg	13:10:26.06	0.27
			Sg	10:33.31	-0.22
PKST	74.6	46	Pg	13:10:29.00	-0.19
			Sg	10:40.84	1.26
KOVH	98.1	143	Pg	13:10:33.87	0.47
			Sg	10:47.37	0.31
MORH	119.5	122	Sg	13:10:52.74	-1.13
PKSM	119.6	123	Sg	13:10:53.60	-0.29

Hypocenter Parameters

595.

2019-07-04 time: 17:49:51.21 UTC ML= 1.8
lat: 48.550N lon: 20.839E h= 0.0 km
erh= 2.4km erz= 3.4km
nr= 8 gap= 91 rms=0.66
Locality: Hidvégárdó
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	27.2	254	Pg	17:49:55.71	-0.35
ABAH	40.9	134	Sg	17:50:04.90	0.69
PSZ	99.3	225	Sg	17:50:23.08	0.31
NIE	104.0	338	Pg	17:50:10.78	0.99
			Sg	50:24.28	0.00
KOLS	113.8	68	Sg	17:50:26.54	-0.83
A336	140.8	256	Sn	17:50:34.17	-0.80
VYHS	148.1	268	Sn	17:50:36.03	-0.57

596.

2019-07-05 time: 7:04:42.86 UTC ML= 1.6
lat: 47.514N lon: 18.612E h= 0.0 km
erh= 3.5km erz= 564km
nr= 11 gap=211 rms=0.46
Locality: Bicske
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	21.5	231	Pg	7:04:47.29	0.58
			Sg	04:50.37	0.66
CSKK	31.4	238	Pg	7:04:48.50	0.03
			Sg	04:52.67	-0.17
SRO	40.1	326	ePg	7:04:50.00	-0.03
			eSg	04:55.50	-0.12
PKST	52.0	237	Pg	7:04:51.40	-0.76
			Sg	04:58.73	-0.67
A336	85.0	20	Sg	7:05:09.48	-0.41
VYHS	110.2	9	Pg	7:05:02.97	0.42
			Sg	05:18.00	0.10

597.

2019-07-05 time: 7:27:22.41 UTC ML= 2.3
lat: 46.215N lon: 16.057E h= 0.1 km
erh= 1.2km erz= 1.9km
nr= 37 gap=130 rms=0.55
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
KOGS	29.9	30	Pg	7:27:28.17	0.43
			Sg	27:32.01	0.11
PTJ	35.9	192	Pg	7:27:28.35	-0.46
			Sg	27:32.20	-1.61
GOLS	40.4	236	ePgD	7:27:30.29	0.66
			eSg	27:35.73	0.47
DOBS	46.0	261	ePg	7:27:30.95	0.33
			eSg	27:38.09	1.06
GROS	50.8	303	Pg	7:27:31.85	0.38
			Sg	27:38.57	0.03
GCIS	51.0	221	ePgD	7:27:31.47	-0.05
CESS	53.2	240	iPgD	7:27:32.42	0.50
			eSg	27:40.01	0.68
BEHE	62.1	63	Pg	7:27:33.67	0.16
			Sg	27:41.66	-0.50
CRES	63.5	227	Pg	7:27:33.73	-0.02
			Sg	27:42.26	-0.34
LEGS	64.4	243	ePgC	7:27:34.04	0.13
			eSg	27:43.62	0.73
ZAVS	83.2	287	ePgC	7:27:37.16	-0.10
PKKS	83.6	258	ePgC	7:27:37.32	-0.03
SOKA	94.1	303	Pg	7:27:39.15	-0.06
			Sg	27:50.84	-1.47
BOJS	100.8	218	ePg	7:27:40.85	0.44

Földrengés paraméterek

VISS	104.9	244	ePgD	7:27:40.38	-0.75
VNDS	105.5	263	ePg	7:27:40.85	-0.40
			eSg	27:56.03	0.09
OBKA	120.6	286	Sg	7:27:58.95	-1.80
MOZS	124.8	274	ePg	7:27:44.38	-0.31
GBAS	128.8	256	ePg	7:27:44.34	-1.06
CRNS	139.6	264	ePn	7:27:46.60	-0.23
KNDS	150.9	240	ePnC	7:27:48.45	0.20
			eSn	28:09.03	0.62
JAVS	158.3	257	ePnD	7:27:49.34	0.17
			eSn	28:10.88	0.83
SKDS	175.2	245	ePn	7:27:52.16	0.89
			eSn	28:15.07	1.28
CONA	191.0	356	Pn	7:27:57.09	3.84*

598.

2019-07-05 time: 7:39:15.92 UTC ML= 1.8
lat: 47.318N lon: 17.657E h= 0.0 km
erh= 1.3km erz= 1.5km
nr= 15 gap= 97 rms=0.54
Locality: Bakonykoppány
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
MPLH	18.7	208	Pg	7:39:19.41	0.14
			Sg	39:21.30	-0.58
EGYH	26.9	294	Pg	7:39:20.86	0.13
			Sg	39:25.72	1.24
PKST	29.3	103	Pg	7:39:21.89	0.74
			Sg	39:25.62	0.40
CSKK	45.8	84	Sg	7:39:30.12	-0.37
PKSG	56.0	82	Pg	7:39:25.86	-0.06
			Sg	39:33.63	-0.09
A336	143.0	45	Pn	7:39:40.78	-0.01
			Sn	39:59.60	-0.58
MORH	143.9	148	Sn	7:39:59.45	-0.92
CONA	151.1	297	Sn	7:40:00.08	-1.89
VYHS	157.6	34	Pn	7:39:42.58	-0.03
			Sn	40:02.39	-1.04

599.

2019-07-05 time: 7:41:49.93 UTC ML= 1.0
lat: 47.109N lon: 18.004E h= 0.0 km
erh= 2.0km erz= 698km
nr= 11 gap=119 rms=0.56
Locality: Litér
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	16.9	8	Pg	7:41:52.79	-0.15
			Sg	41:55.34	0.05
CSKK	34.3	35	Pg	7:41:56.74	0.68
			Sg	41:59.66	-1.18
MPLH	35.9	281	Pg	7:41:56.52	0.19
			Sg	42:01.03	-0.30
MORH	110.7	154	Pg	7:42:09.92	0.22
PKSM	111.0	154	Pg	7:42:10.05	0.29
			Sg	42:23.91	-1.31
KOVH	113.7	176	Pg	7:42:10.59	0.36
			Sg	42:24.87	-1.20

600.

2019-07-05 time: 7:50:45.58 UTC ML= 2.0
lat: 48.241N lon: 21.256E h= 0.0 km
erh= 2.3km erz= 4.2km
nr= 8 gap=153 rms=0.48
Locality: Tállya
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	6.3	349	Pg	7:50:47.10	0.40
			Sg	50:48.50	0.92

Földrengés paraméterek

KECS 63.2 295 Pg 7:50:56.53 -0.33
Sg 51:05.17 -0.49
TRPA 96.2 97 Sg 7:51:16.07 -0.08
KOLS 107.5 44 Sg 7:51:18.93 -0.82
PSZ 107.6 251 Sg 7:51:19.93 0.14
VYHS 181.5 279 Sn 7:51:38.71 0.32

601.

2019-07-05 time: 20:06:01.91 UTC ML= 1.7
lat: 45.915N lon: 16.004E h= 7.9 km
erh= 1.2km erz= 1.7km
nr= 18 gap=141 rms=0.35
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
PTJ	3.9	245	Pg	20:06:03.30	-0.19
			Sg	06:04.03	-0.69
ZAG	9.6	185	Pg	20:06:04.24	0.11
			Sg	06:06.56	0.70
GCIS	29.7	260	ePgD	20:06:07.54	0.14
			eSg	06:12.17	0.50
GOLS	31.3	290	ePg	20:06:08.21	0.54
CRES	43.6	257	Pg	20:06:09.82	0.00
			Sg	06:15.39	-0.61
DOBS	48.9	302	ePg	20:06:10.76	0.00
			eSg	06:17.48	-0.18
LEGS	53.3	274	ePg	20:06:11.61	0.07
KOGS	62.3	18	Pg	20:06:12.46	-0.66
			Sg	06:22.21	0.35
GROS	72.0	327	Pg	20:06:14.78	-0.07
			Sg	06:25.21	0.27
BEHE	85.8	44	Pg	20:06:17.45	0.15
			Sg	06:29.23	-0.07
PERS	105.4	320	Sg	20:06:33.18	-2.31*

602.

2019-07-06 time: 0:38:21.89 UTC ML= 2.1
lat: 48.368N lon: 22.879E h= 11.6 km
erh= 3.3km erz= 1.5km
nr= 8 gap=220 rms=0.33
Locality: Ukraine
Comments:

sta	dist	azm	phase	hr mn sec	res
TRPA	36.6	224	Pg	0:38:28.73	-0.02
			Sg	38:34.00	-0.09
KOLS	77.1	325	Pg	0:38:35.56	-0.24
			Sg	38:47.35	0.69
ABAH	121.9	266	Pn	0:38:42.48	-0.15
			Sn	38:58.60	-0.21
DRGR	175.8	184	Sn	0:39:11.30	0.52
KECS	177.6	274	Sn	0:39:14.97	3.78*

603.

2019-07-06 time: 8:49:32.30 UTC ML= 1.2
lat: 46.210N lon: 18.236E h= 0.0 km
erh= 3.4km erz= 468km
nr= 6 gap=231 rms=0.43
Locality: Komló
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	17.1	218	PgU	8:49:35.78	0.42
			Sg	49:38.32	0.58
MORH	31.5	89	Pg	8:49:37.81	-0.12
			Sg	49:42.54	0.22
PKSV	35.7	178	Pg	8:49:38.37	-0.31
			Sg	49:42.72	-0.94

Hypocenter Parameters

604.

2019-07-08 time: 8:09:50.75 UTC ML= 1.4
lat: 46.066N lon: 18.061E h= 0.0 km
erh= 6.1km erz= 724km
nr= 7 gap=306 rms=0.48
Locality: Boda
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	3.9	51	Pg	8:09:51.85	0.41
			Sg	09:52.82	0.84
PKSM	47.7	70	Pg	8:09:59.13	-0.13
			Sg	10:05.24	-0.66
MORH	48.0	70	Pg	8:09:59.23	-0.10
PKS9	60.3	16	Sg	8:10:09.00	-0.90
PKB5	78.4	41	Sg	8:10:15.98	0.30

605.

2019-07-08 time: 8:28:29.34 UTC ML= 1.3
lat: 48.569N lon: 20.720E h= 0.0 km
erh= 1.8km erz= 2.5km
nr= 8 gap=222 rms=0.21
Locality: Komjáti
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	19.7	241	Pg	8:28:32.91	0.04
			Sg	28:35.62	0.00
ABAH	49.0	128	Pg	8:28:38.18	0.09
			Sg	28:44.71	-0.20
PSZ	94.8	220	Pg	8:28:46.47	0.20
			Sg	28:59.27	-0.21
VYHS	139.4	267	Pn	8:28:53.65	-0.10
			Sn	29:09.51	-3.29*

606.

2019-07-08 time: 8:49:48.63 UTC ML= 1.3
lat: 47.873N lon: 18.839E h= 0.0 km
erh= 1.6km erz= 659km
nr= 13 gap=107 rms=0.56
Locality: Márianosztra
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	34.4	106	Pg	8:49:55.65	0.88
			Sg	50:00.13	0.57
A338	39.6	293	Sg	8:50:03.13	1.90
A336	41.7	17	Pg	8:49:55.96	-0.13
			Sg	50:01.81	-0.09
PKSG	63.3	212	Pg	8:50:00.25	0.32
			Sg	50:08.51	-0.23
VYHS	69.0	360	Pg	8:50:01.14	0.18
			Sg	50:09.85	-0.72
CSKK	71.5	217	Sg	8:50:10.66	-0.69
PSZ	79.1	86	Sg	8:50:12.85	-0.92
PKST	91.3	222	Pg	8:50:04.62	-0.31
			Sg	50:17.23	-0.42

607.

2019-07-09 time: 6:24:22.31 UTC ML= 1.1
lat: 47.497N lon: 18.634E h= 0.0 km
erh= 3.8km erz= 645km
nr= 9 gap=230 rms=0.49
Locality: Bicske
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	21.8	237	Pg	6:24:26.48	0.28
			Sg	24:29.53	0.30
CSKK	31.9	242	Pg	6:24:27.25	-0.75

Hypocenter Parameters

		Sg	24:31.88	-0.56
SRO	42.6 326	Sg	6:24:36.27	0.42
PKST	52.4 240	Pg	6:24:32.31	0.63
		Sg	24:38.39	-0.59
VYHS	111.8 8	Pg	6:24:42.43	0.14
		Sg	24:57.61	-0.26

608.

2019-07-09 time: 7:29:07.83 UTC ML= 1.4
lat: 47.799N lon: 19.066E h= 0.0 km
erh= 7.1km erz= 745km
nr= 6 gap=254 rms=0.71
Locality: Verőce
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	16.2	93	Pg	7:29:11.53	0.80
			Sg	29:13.02	0.03
A336	48.5	354	Sg	7:29:23.06	-0.20
PSZ	63.4	78	Pg	7:29:18.81	-0.35
			Sg	29:26.25	-1.74
VYHS	79.1	348	Sg	7:29:33.47	0.48

609.

2019-07-09 time: 8:53:36.63 UTC ML= 1.1
lat: 47.878N lon: 19.184E h= 0.0 km
erh= 4.4km erz= 808km
nr= 6 gap=196 rms=0.48
Locality: Felsőpetény
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	12.2	143	Pg	8:53:38.39	-0.42
			Sg	53:41.07	0.56
PSZ	53.3	85	Pg	8:53:46.62	0.47
			Sg	53:52.53	-1.05
VYHS	73.2	339	Pg	8:53:49.85	0.16
			Sg	53:59.76	-0.12

610.

2019-07-09 time: 9:29:36.77 UTC ML= 1.1
lat: 47.203N lon: 18.289E h= 0.0 km
erh= 1.4km erz= 1.2km
nr= 7 gap=268 rms=0.15
Locality: Csór
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	17.9	353	Pg	9:29:39.84	-0.13
			Sg	29:42.31	-0.16
PKST	20.3	288	Pg	9:29:40.36	-0.03
			Sg	29:43.27	0.06
PKSG	22.4	20	Pg	9:29:40.94	0.18
			Sg	29:44.10	0.23
VYHS	149.3	16	Sn	9:30:22.18	-0.23

611.

2019-07-10 time: 6:29:42.74 UTC ML= 1.3
lat: 47.301N lon: 18.330E h= 0.0 km
erh= 1.0km erz= 2.5km
nr= 10 gap=145 rms=0.26
Locality: Magyaralmás
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	8.7	323	Pg	6:29:44.20	-0.09
			Sg	29:45.06	-0.45
PKSG	11.1	24	PgU	6:29:44.75	0.03
			Sg	29:46.60	0.34
PKST	22.9	258	Pg	6:29:46.95	0.12

Földrengés paraméterek

		Sg	29:50.55	0.54
MORH	123.0 169	Sg	6:30:21.66	-0.17
PKSM	123.4 169	Sg	6:30:21.70	-0.26
VYHS	137.9 16	Pn	6:30:06.91	-0.06
		Sn	30:23.65	-2.22*

612.

2019-07-10 time: 7:31:53.96 UTC ML= 1.2
lat: 45.856N lon: 18.407E h= 0.0 km
erh= 6.1km erz= 909km
nr= 9 gap=262 rms=0.70
Locality: Nagyharsány
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSV	12.5	287	Pg	7:31:55.91	-0.28
			Sg	31:56.97	-0.97
KOVH	35.1	317	Pg	7:32:00.33	0.11
			Sg	32:04.89	-0.22
PKSM	43.5	25	Pg	7:32:01.94	0.21
			Sg	32:06.85	-0.94
MORH	44.0	25	Pg	7:32:01.91	0.10
			Sg	32:07.26	-0.69
PKS9	81.8	353	Pg	7:32:10.24	1.67

613.

2019-07-10 time: 11:13:16.64 UTC ML= 2.2
lat: 48.505N lon: 22.772E h= 10.0 km
erh= 2.9km erz= 2.4km
nr= 24 gap=121 rms=0.97
Locality: Ukraine
Comments:

sta	dist	azm	phase	hr mn sec	res
TRPA	45.1	203	Pg	11:13:26.28	1.39
			Sg	13:32.29	0.96
KOLS	60.1	322	Pg	11:13:26.64	-0.89
			Sg	13:36.38	0.36
BMR	107.1	150	P*C	11:13:33.00	-2.75
			S*	13:48.20	-2.45
ABAH	115.9	258	Pn	11:13:36.03	-0.81
			Sn	13:51.95	-0.65
KWP	125.4	358	Pn	11:13:38.47	0.44
			Sn	13:54.84	0.13
STHS	151.0	312	ePn	11:13:40.00	-1.23
KECS	169.0	269	Pn	11:13:44.14	0.67
			Sn	14:04.49	0.09
DRGR	190.6	181	Pn	11:13:46.12	-0.04
			Sn	14:08.41	-0.77
ARCR	197.4	143	Sn	11:14:12.83	2.14
MARR	205.0	173	PnC	11:13:47.46	-0.50
			Sn	14:12.10	-0.29
NIE	206.8	299	Pn	11:13:49.61	1.43
			Sn	14:13.58	0.80
BURA	207.4	119	PnC	11:13:48.13	-0.12
			Sn	14:13.40	0.49
PSZ	223.6	253	Pn	11:13:50.12	-0.16
			Sn	14:16.44	-0.08

614.

2019-07-11 time: 6:24:05.78 UTC ML= 1.7
lat: 48.160N lon: 21.323E h= 0.0 km
erh= 2.1km erz= 489km
nr= 8 gap=164 rms=0.35
Locality: Bodrogkeresztúr
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	16.3	338	Pg	6:24:08.91	0.21
			Sg	24:11.11	0.14
KECS	71.8	300	Pg	6:24:18.70	0.10
			Sg	24:27.54	-1.05

Földrengés paraméterek

TRPA	90.6	92	Pg	6:24:22.02	0.07
			Sg	24:34.20	-0.37
PSZ	109.9	256	Pg	6:24:25.72	0.32
KOLS	110.9	39	ePg	6:24:25.50	-0.09
			eSg	24:37.80	-3.25*

615.

2019-07-11 time: 8:36:47.06 UTC ML= 0.8
lat: 47.200N lon: 18.259E h= 0.0 km
erh= 1.5km erz= 410km
nr= 7 gap=140 rms=0.27
Locality: Csór
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	18.2	0	Pg	8:36:50.33	0.03
			Sg	36:52.35	-0.48
PKST	18.2	291	Pg	8:36:50.71	0.40
			Sg	36:52.59	-0.27
PKSG	23.5	25	Pg	8:36:51.32	0.06
			Sg	36:54.65	0.11
PKSM	113.7	165	Sg	8:37:22.78	-0.41

616.

2019-07-11 time: 9:18:33.77 UTC ML= 2.0
lat: 46.994N lon: 22.244E h= 0.0 km
erh= 1.8km erz= 2.0km
nr= 8 gap=135 rms=0.32
Locality: Romania
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
DRGR	42.1	122	PgU	9:18:41.62	0.33
			Sg	18:46.93	-0.23
TRPA	128.2	10	Pg	9:18:56.64	-0.03
BZS	160.6	198	Pn	9:19:01.03	0.21
			Sn	19:21.20	-0.73
ARCR	160.6	86	Pn	9:19:00.91	0.08
			Sn	19:20.91	-1.03
ABAH	163.2	332	Pn	9:19:01.14	-0.01

617.

2019-07-11 time: 9:20:27.47 UTC ML= 1.1
lat: 48.589N lon: 20.764E h= 0.0 km
erh= 3.8km erz= 5.4km
nr= 8 gap=165 rms=0.54
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.6	240	Sg	9:20:36.03	1.05
ABAH	47.9	133	Pg	9:20:36.43	0.40
			Sg	20:42.56	-0.15
PSZ	98.6	221	Pg	9:20:44.56	-0.51
			Sg	20:58.62	-0.19
KOLS	117.4	71	Sg	9:21:04.75	-0.04
VYHS	142.7	266	Pn	9:20:52.55	0.25
			Sn	21:10.27	-1.40

618.

2019-07-11 time: 22:05:02.31 UTC ML= 1.7
lat: 46.032N lon: 16.129E h= 10.0 km
erh= 2.7km erz= 4.0km
nr= 19 gap=117 rms=0.85
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
PTJ	19.8	222	PgU	22:05:05.62	-0.64
			Sg	05:08.60	-0.75

Hypocenter Parameters

ZAG	24.9	205	Pg	22:05:07.50	0.41
GOLS	39.2	267	iPg	22:05:09.65	0.13
GCIS	43.0	245	iPg	22:05:10.14	-0.05
KOGS	47.2	11	Sg	22:05:16.32	-1.33
CESS	52.0	263	iPg	22:05:12.19	0.43
DOBS	52.7	284	iPg	22:05:12.01	0.12
CRES	56.9	246	Pg	22:05:12.44	-0.19
			Sg	05:19.75	-0.94
GROS	68.0	315	Pg	22:05:16.18	1.60
			Sg	05:23.04	-1.10
BEHE	69.7	46	Pg	22:05:15.87	0.99
			Sg	05:23.13	-1.56
PERS	102.9	311	Pg	22:05:21.26	0.49
			Sg	05:33.76	-1.41
KOVH	152.6	88	Pn	22:05:27.22	0.13
			Sn	05:45.20	-1.23
MORH	195.5	84	Pn	22:05:34.87	2.43

619.

2019-07-12 time: 7:12:00.06 UTC ML= 1.5
lat: 47.334N lon: 18.458E h= 0.0 km
erh= 1.7km erz= 4.5km
nr= 9 gap=161 rms=0.36
Locality: Lovasberény
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	8.2	321	PgU	7:12:01.78	0.26
			Sg	12:02.07	-0.58
CSKK	15.3	282	PgU	7:12:03.02	0.24
			Sg	12:04.96	0.05
PKST	33.1	255	Pg	7:12:06.18	0.21
			Sg	12:10.05	-0.54
MORH	125.2	173	Sg	7:12:39.75	-0.09
PKSM	125.6	174	Sg	7:12:39.99	0.02
VYHS	132.0	12	Sn	7:12:40.37	-1.50

620.

2019-07-12 time: 7:45:12.60 UTC ML= 1.6
lat: 47.904N lon: 19.412E h= 0.0 km
erh= 2.1km erz= 5.3km
nr= 10 gap=130 rms=0.66
Locality: Becske
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	16.0	218	Pg	7:45:14.85	-0.60
			Sg	45:18.14	0.46
PSZ	36.1	88	Pg	7:45:19.24	0.19
			Sg	45:24.32	0.24
A336	47.8	320	Pg	7:45:22.33	1.19
			Sg	45:27.40	-0.40
VYHS	78.3	327	Sg	7:45:36.94	-0.56
KECS	102.6	51	ePg	7:45:31.00	0.08
			eSg	45:44.20	-1.00
MODS	167.2	288	eSn	7:46:01.00	-1.24

621.

2019-07-12 time: 9:06:48.40 UTC ML= 2.0
lat: 47.049N lon: 17.766E h= 0.0 km
erh= 6.5km erz= 941km
nr= 9 gap=251 rms=0.71
Locality: Tótvázsony
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
TIH	19.2	150	Pg	9:06:51.55	-0.28
			Sg	06:53.23	-1.28
PKST	30.9	41	Pg	9:06:53.82	-0.10
			Sg	06:57.42	-0.81
CSKK	51.2	47	Pg	9:06:58.54	1.00
			Sg	07:04.15	-0.52

Hypocenter Parameters

PKSG 60.7 51 Sg 9:07:07.40 -0.30
MORH 114.5 144 Sg 9:07:25.70 0.91
PKSM 114.7 144 Sg 9:07:25.73 0.86

622.

2019-07-13 time: 7:27:37.13 UTC ML= 2.0
lat: 46.696N lon: 21.091E h= 6.8 km
erh= 2.3km erz= 2.0km
nr= 33 gap= 87 rms=1.08
Locality: Mezőmegyer
Comments:

sta	dist	azm	phase	hr mn sec	res
SIRR	64.6	138	PgC	7:27:49.24	0.50
			Sg	27:55.00	-2.79
PKSN	96.1	283	Sg	7:28:06.36	-1.39
PKS6	117.4	265	Pn	7:27:58.02	0.09
			Sn	28:12.11	-2.04
DRGR	124.3	85	Pn	7:27:58.48	-0.31
			Sn	28:13.77	-1.91
BZS	126.7	161	Pn	7:27:59.69	0.60
			Sn	28:14.56	-1.65
SURR	131.6	143	PnD	7:28:00.09	0.38
			Sn	28:16.50	-0.81
PKB2	141.5	269	Sn	7:28:17.97	-1.53
PKS2	145.7	261	Sn	7:28:20.07	-0.36
PKB3	148.5	258	Sn	7:28:20.12	-0.94
MARR	155.1	91	PnC	7:28:02.90	0.26
			Sn	28:21.60	-0.93
PSZ	163.3	326	Pn	7:28:04.85	1.20
			Sn	28:24.49	0.16
ABAH	178.2	4	Sn	7:28:27.02	-0.63
CJR	191.7	89	PnD	7:28:08.93	1.73
			Sn	28:31.00	0.35
GZR	194.9	138	PnD	7:28:08.94	1.34
			Sn	28:32.90	1.54
MORH	195.4	254	Pn	7:28:09.55	1.89
			Sn	28:33.25	1.78
PKSM	195.8	254	Pn	7:28:09.34	1.64
			Sn	28:33.12	1.57

623.

2019-07-13 time: 12:37:40.54 UTC ML= 1.2
lat: 47.500N lon: 18.819E h= 5.7 km
erh= 3.1km erz=12.1km
nr= 14 gap=153 rms=0.67
Locality: Páty
Comments:

sta	dist	azm	phase	hr mn sec	res
BUD	15.6	97	Pg	12:37:43.64	0.14
			Sg	37:45.27	-0.54
PKSG	34.5	250	Pg	12:37:46.85	0.08
			Sg	37:51.34	-0.30
CSKK	44.8	250	Pg	12:37:48.35	-0.25
			Sg	37:54.66	-0.23
PENC	47.5	47	Pg	12:37:49.46	0.39
			Sg	37:56.56	0.83
A336	82.6	9	Pg	12:37:55.79	0.46
			Sg	38:06.30	-0.56
PSZ	93.2	60	Pg	12:37:56.99	-0.22
			Sg	38:08.46	-1.75
VYHS	110.5	1	ePg	12:38:02.50	2.20
			eSg	38:14.20	-1.51

624.

2019-07-13 time: 12:41:12.61 UTC ML= 2.5
lat: 47.435N lon: 18.849E h= 10.9 km
erh= 1.0km erz= 0.9km
nr= 68 gap= 30 rms=0.72
Locality: Sósikút
Comments: felt 4 EMS

Földrengés paraméterek

sta	dist	azm	phase	hr mn sec	res
BUD	14.2	68	Pg	12:41:15.92	0.10
			Sg	41:17.80	-0.51
PKSG	34.9	262	Pg	12:41:19.40	0.26
			Sg	41:24.22	-0.02
CSKK	45.1	260	Pg	12:41:20.91	0.01
			Sg	41:27.00	-0.37
PKS7	49.2	151	Pg	12:41:22.23	0.62
			Sg	41:29.00	0.37
PENC	51.2	39	Pg	12:41:21.92	-0.03
			Sg	41:28.77	-0.47
SRO	58.2	316	Pg	12:41:24.24	1.06
			Sg	41:29.95	-1.48
PKST	64.6	252	Pg	12:41:23.98	-0.33
			Sg	41:32.62	-0.81
A338	74.4	330	Pg	12:41:22.82	0.77
			Sg	41:36.51	-0.02
A336	89.4	7	Pg	12:41:28.52	-0.18
			Sg	41:38.95	-2.29
PKB2	89.7	161	Pg	12:41:29.24	0.49
			Sg	41:40.44	-0.90
TIH	93.8	231	Pg	12:41:29.69	0.22
			Sg	41:41.68	-0.94
PKB5	93.8	185	Pg	12:41:29.64	0.16
			Sg	41:41.22	-1.41
PSZ	95.1	56	Pg	12:41:29.63	-0.08
			Sg	41:41.28	-1.77
PKSN	97.7	128	Pg	12:41:30.59	0.43
MPLH	103.3	253	P*	12:41:31.34	0.29
			S*	41:44.44	-1.00
PKS9	103.8	205	P*	12:41:31.17	0.04
			S*	41:44.50	-1.07
PKS6	107.7	150	Pn	12:41:32.18	0.51
			Sn	41:45.47	-1.07
BSZH	108.2	98	Sn	12:41:47.20	0.54
PKS2	108.5	165	Pn	12:41:31.99	0.21
			Sn	41:46.37	-0.35
EGYH	114.5	269	Pn	12:41:33.63	1.11
			Sn	41:47.14	-0.92
PKB3	115.5	167	Pn	12:41:33.60	0.95
			Sn	41:47.74	-0.54
VYHS	117.7	360	Pn	12:41:33.38	0.45
			Sn	41:46.99	-1.78
A337	119.9	319	Pn	12:41:34.34	1.14
			Sn	41:49.04	-0.22
MORH	136.5	187	Pn	12:41:34.79	-0.48
			Sn	41:52.45	-0.49
PKSM	136.9	187	Pn	12:41:34.76	-0.56
			Sn	41:52.83	-0.21
MODS	157.1	312	ePn	12:41:36.60	-1.24
			eSn	41:55.50	-2.02
KOVH	160.3	201	Pn	12:41:37.54	-0.70
			Sn	41:59.06	0.83
SOP	174.6	279	Pn	12:41:40.47	0.45
PKSV	177.9	195	Pn	12:41:40.21	-0.22
			Sn	42:04.44	2.30
RONA	194.3	279	Pn	12:41:42.82	0.34
			Sn	42:03.82	-1.95
LANS	196.2	14	ePn	12:41:46.30	3.59*
			eSn	42:06.30	0.11
ABAH	202.9	62	Pn	12:41:44.86	1.32
BORR	225.6	100	PnC	12:41:46.43	0.06
KOGS	226.3	241	Pn	12:41:47.65	1.19
CONA	230.9	284	Pn	12:41:47.22	0.18
SIRR	250.6	121	PnD	12:41:49.74	0.24
ARSA	252.2	265	Pn	12:41:48.78	-0.91
			Sn	42:17.71	-0.90
KRUC	256.7	315	Pn	12:41:50.53	0.27
VRAC	267.0	321	Pn	12:41:52.57	1.03
BZS	293.2	134	PnC	12:41:54.88	0.07
DRGR	301.8	104	PnD	12:41:55.00	-0.87*
SOKA	301.9	254	Pn	12:41:57.38	1.48*
			Sn	42:27.69	-1.97*
SURR	313.0	127	PnC	12:41:57.52	0.25*

Földrengés paraméterek

MOA	347.4	278	Pn	12:42:03.50	1.93*
			Sn	42:35.80	-3.96*
DEV	355.1	119	PnC	12:42:03.72	1.20*
MDVR	368.9	143	PnC	12:42:04.73	0.49*
DPC	373.4	330	ePn	12:42:06.20	1.40*
BIOA	393.2	274	Pn	12:42:06.33	-0.94*
			Sn	42:44.89	-5.02*
KHC	434.3	296	ePn	12:42:13.00	0.60*
			eSn	42:58.50	-0.53*
BURA	480.0	88	PnC	12:42:17.73	-0.37*
WTTA	545.3	268	Pn	12:42:22.80	-3.44*

625.

2019-07-13 time: 12:42:30.90 UTC ML= 1.2
lat: 47.448N lon: 18.843E h= 11.2 km
erh= 1.8km erz= 1.7km
nr= 16 gap=111 rms=0.61
Locality: Biatorbágy
Comments:

sta	dist	azm	phase	hr mn sec	res
BUD	14.2	74	Pg	12:42:34.51	0.38
			Sg	42:36.29	-0.36
PKSG	34.7	260	Pg	12:42:38.15	0.74
			Sg	42:42.21	-0.28
CSKK	45.0	258	Sg	12:42:45.68	0.06
PENC	50.4	41	Pg	12:42:40.25	0.14
PKST	64.6	251	Sg	12:42:51.10	-0.64
A336	88.1	8	Pg	12:42:46.98	0.23
			Sg	42:57.90	-1.21
PSZ	94.7	56	Pg	12:42:48.26	0.34
			Sg	43:00.26	-0.95
PKB5	95.2	185	Sg	12:43:00.41	-0.95
VYHS	116.3	360	Sn	12:43:05.71	-0.96
MORH	137.8	186	Pn	12:42:54.74	1.06
			Sn	43:11.41	-0.04
PKSM	138.3	186	Sn	12:43:11.13	-0.42

626.

2019-07-13 time: 12:46:40.47 UTC ML= 0.8
lat: 47.457N lon: 18.833E h= 10.0 km
erh= 4.4km erz= 4.9km
nr= 10 gap=171 rms=0.40
Locality: Biatorbágy
Comments:

sta	dist	azm	phase	hr mn sec	res
BUD	14.7	78	Pg	12:46:43.76	0.11
			Sg	46:45.74	-0.38
PKSG	34.2	258	Pg	12:46:47.33	0.50
			Sg	46:52.10	0.32
CSKK	44.5	256	Sg	12:46:54.23	-0.72
PENC	50.1	42	Pg	12:46:49.69	0.09
			Sg	46:56.82	0.11
PKST	64.2	250	Sg	12:47:00.58	-0.55
PSZ	94.8	57	Pg	12:46:57.69	0.20
			Sg	47:09.94	-0.82

627.

2019-07-13 time: 13:13:23.72 UTC ML= 1.1
lat: 47.354N lon: 18.176E h= 10.0 km
erh= 2.4km erz= 1.1km
nr= 11 gap=134 rms=0.41
Locality: Nagyveleg
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	6.5	81	Pg	13:13:25.95	0.10
			Sg	13:27.26	-0.25
PKST	15.0	225	Pg	13:13:26.76	-0.18
			Sg	13:29.02	-0.43
PKSG	16.8	75	Pg	13:13:27.31	0.10

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Hypocenter Parameters

			Sg	13:30.07	0.14
MPLH	52.3	247	Pg	13:13:33.43	0.20
A336	115.6	32	Sn	13:13:58.29	-1.33
PKSM	131.8	164	Sn	13:14:03.16	-0.06
VYHS	136.1	21	ePn	13:13:47.50	1.06
			eSn	14:03.60	-0.56

628.

2019-07-14 time: 5:17:04.01 UTC ML= 1.5
lat: 46.036N lon: 16.138E h= 7.8 km
erh= 2.2km erz= 3.1km
nr= 15 gap=118 rms=0.48
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
PTJ	20.6	223	Pg	5:17:07.62	-0.33
			Sg	17:10.53	-0.49
ZAG	25.6	206	Pg	5:17:08.90	0.10
			Sg	17:12.74	0.21
GOLS	39.9	266	iPgD	5:17:11.63	0.36
			eSg	17:17.76	0.83
GCIS	43.9	245	iPgC	5:17:12.08	0.12
			eSg	17:18.74	0.57
KOGS	46.6	11	Sg	5:17:18.46	-0.56
DOBS	53.3	284	ePg	5:17:13.93	0.31
CRES	57.8	246	Pg	5:17:14.37	-0.06
			Sg	17:21.58	-0.97
KOVH	151.9	88	Pn	5:17:29.09	0.11
			Sn	17:47.16	-1.30
PKSM	194.4	84	Pn	5:17:35.87	1.58

629.

2019-07-15 time: 8:20:22.09 UTC ML= 1.5
lat: 47.514N lon: 18.572E h= 0.0 km
erh= 5.2km erz= 8.8km
nr= 12 gap=204 rms=1.10
Locality: Nagygyháza
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	19.3	225	Pg	8:20:26.04	0.50
			Sg	20:28.85	0.63
CSKK	28.9	235	Pg	8:20:27.07	-0.18
			Sg	20:31.66	0.39
SRO	38.6	330	Pg	8:20:29.66	0.68
			Sg	20:33.84	-0.51
PKST	49.5	235	Pg	8:20:30.88	-0.06
			Sg	20:37.31	-0.53
A336	86.1	22	Pg	8:20:39.56	2.09
			Sg	20:47.76	-1.71
VYHS	110.7	10	Pg	8:20:41.53	-0.34
MODS	136.0	315	ePn	8:20:43.60	-2.49
			eSn	20:58.90	-5.90*

630.

2019-07-15 time: 9:01:35.04 UTC ML= 2.0
lat: 45.620N lon: 17.320E h= 10.0 km
erh= 2.5km erz= 2.5km
nr= 18 gap=119 rms=0.67
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	78.4	68	Pg	9:01:49.87	0.72
			Sg	01:59.76	-0.40
KOVH	79.9	49	Pg	9:01:49.16	-0.25
			Sg	01:59.76	-0.86
BLY	97.4	186	Pg	9:01:52.30	-0.22
			Sg	02:05.32	-0.84
BEHE	103.5	336	P*	9:01:54.67	1.08
PTJ	110.5	286	Pn	9:01:53.37	-1.20

Hypocenter Parameters

			Sn	02:07.87	-1.93
PKSM	121.8	57	Pn	9:01:56.27	0.29
			Sn	02:11.62	-0.69
MORH	122.2	57	Pn	9:01:55.98	-0.05
			Sn	02:12.07	-0.34
KOGS	123.9	318	Pn	9:01:56.69	0.46
			Sn	02:12.42	-0.35
CRES	146.9	279	Pn	9:01:59.88	0.77
			Sn	02:18.53	0.65
PKST	190.3	17	Pn	9:02:04.73	0.21

631.

2019-07-15 time: 14:42:22.33 UTC ML= 1.7
lat: 48.572N lon: 20.805E h= 1.8 km
erh= 1.6km erz= 2.1km
nr= 7 gap=163 rms=0.23
Locality: Tornanádaska
Comments:

sta	dist	azm	phase	hr mn sec	res
KECS	25.6	247	Pg	14:42:27.16	0.25
			Sg	42:30.09	-0.39
ABAH	44.4	134	Pg	14:42:30.39	0.13
			Sg	42:36.51	0.06
PSZ	99.3	223	Sg	14:42:53.69	-0.20
KOLS	115.2	70	eSg	14:42:58.60	-0.34
VYHS	145.7	267	Sn	14:43:06.82	0.04

632.

2019-07-16 time: 7:44:41.45 UTC ML= 1.9
lat: 47.671N lon: 18.527E h= 0.0 km
erh= 2.2km erz= 589km
nr= 5 gap=123 rms=0.27
Locality: Héreg
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
SRO	22.5	315	Pg	7:44:45.26	-0.22
			Sg	44:48.88	0.26
PKSG	32.6	198	Sg	7:44:52.40	0.57
CSKK	39.6	210	Pg	7:44:48.35	-0.18
PSZ	106.1	75	Sg	7:45:15.28	0.10

633.

2019-07-16 time: 10:36:48.02 UTC ML= 1.4
lat: 47.301N lon: 18.343E h= 0.0 km
erh= 2.7km erz= 614km
nr= 7 gap=150 rms=0.42
Locality: Magyarálmás
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	9.3	318	Pg	10:36:49.43	-0.25
			Sg	36:50.60	-0.38
PKSG	10.8	20	Pg	10:36:50.09	0.15
			Sg	36:51.82	0.38
PKST	23.8	259	Pg	10:36:52.36	0.09
			Sg	36:56.10	0.52
PKSM	123.2	169	Sg	10:37:25.35	-1.82

634.

2019-07-17 time: 6:31:48.55 UTC ML= 1.9
lat: 47.353N lon: 18.433E h= 0.0 km
erh= 1.6km erz= 706km
nr= 13 gap=105 rms=0.60
Locality: Gánt
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	5.4	324	PgU	6:31:49.49	-0.03

Földrengés paraméterek

			Sg	31:50.10	-0.18
CSKK	13.1	275	Pg	6:31:50.90	0.01
			Sg	31:52.96	0.24
PKST	31.9	251	Pg	6:31:54.97	0.72
			Sg	31:58.73	0.04
MPLH	70.6	253	Sg	6:32:10.98	-0.02
PKB5	87.3	165	Sg	6:32:17.41	1.11
A336	106.7	23	Sg	6:32:22.08	-0.39
PSZ	126.6	60	Sg	6:32:29.31	0.53
MORH	127.4	173	Sg	6:32:28.00	-1.04
PKSM	127.8	173	Sg	6:32:28.05	-1.12
VYHS	130.5	13	Sg	6:32:28.76	-1.26

635.

2019-07-17 time: 6:42:37.41 UTC ML= 1.5
lat: 47.303N lon: 17.656E h= 0.0 km
erh= 1.5km erz= 5.9km
nr= 8 gap=142 rms=0.40
Locality: Bakonykoppány
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
MPLH	17.1	211	Pg	6:42:40.36	-0.11
			Sg	42:43.23	0.38
EGYH	27.6	298	Pg	6:42:41.87	-0.46
			Sg	42:46.74	0.57
PKST	29.1	100	Pg	6:42:42.72	0.12
			Sg	42:47.04	0.39
PKSG	56.4	80	Sg	6:42:55.21	-0.14
MORH	142.5	148	Sn	6:43:19.76	-1.79

636.

2019-07-17 time: 7:15:30.26 UTC ML= 0.7
lat: 48.704N lon: 18.858E h= 0.0 km
erh= 3.1km erz= 539km
nr= 6 gap=218 rms=0.31
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	23.4	184	Pg	7:15:34.72	0.28
			Sg	15:37.25	-0.45
A336	53.4	169	Sg	7:15:47.30	0.07
LANS	66.8	42	Sg	7:15:51.31	-0.19
PENC	106.3	163	Sg	7:16:03.68	-0.38
PSZ	116.4	139	Sg	7:16:07.64	0.38

637.

2019-07-17 time: 8:10:30.95 UTC ML= 2.4
lat: 48.205N lon: 21.217E h= 0.0 km
erh= 1.7km erz= 2.0km
nr= 8 gap=108 rms=0.39
Locality: Rátka
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	10.2	9	PgU	8:10:32.97	0.20
			Sg	10:33.75	-0.44
KECS	62.4	300	Sg	8:10:50.80	0.01
PSZ	103.6	252	Pg	8:10:49.62	0.17
KOLS	112.4	44	Pg	8:10:51.55	0.54
			Sg	11:05.86	-0.80
LANS	166.3	309	eSn	8:11:19.90	-0.47
DRGR	193.3	144	Sn	8:11:26.15	-0.22

Földrengés paraméterek

638.

2019-07-17 time: 8:13:39.99 UTC ML= 1.6
lat: 48.342N lon: 21.571E h= 0.0 km
erh= 1.7km erz= 2.1km
nr= 7 gap=117 rms=0.66
Locality: Károlyfalva
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	25.1	258	Pg	8:13:45.20	0.73
			Sg	13:48.09	0.12
KECS	81.9	281	Sg	8:14:05.23	-0.78
KOLS	83.7	38	Sg	8:14:06.64	0.05
PSZ	133.4	249	Sn	8:14:20.50	-1.61
DRGR	192.5	154	Pn	8:14:11.06	0.04
			Sn	14:35.31	0.08

639.

2019-07-17 time: 9:05:25.25 UTC ML= 1.3
lat: 48.565N lon: 20.719E h= 0.0 km
erh= 2.0km erz= 3.0km
nr= 14 gap= 93 rms=0.71
Locality: Komjáti
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	19.5	242	Pg	9:05:29.12	0.39
			Sg	05:31.63	0.18
ABAH	48.7	128	Pg	9:05:33.74	-0.21
			Sg	05:40.26	-0.48
PSZ	94.4	220	Sg	9:05:55.73	0.46
NIE	99.5	343	Pg	9:05:43.78	0.76
			Sg	05:56.43	-0.46
LANS	112.6	305	ePg	9:05:44.70	-0.66
			eSg	05:58.90	-2.14
KOLS	121.4	70	ePg	9:05:48.50	1.57
			eSg	06:01.90	-1.93
A336	132.6	254	Sn	9:06:06.67	-0.53
VYHS	139.3	267	Pn	9:05:49.54	-0.11
			Sn	06:07.78	-0.91

640.

2019-07-18 time: 7:12:05.53 UTC ML= 1.4
lat: 48.569N lon: 19.361E h= 0.0 km
erh= 3.0km erz= 667km
nr= 8 gap=199 rms=0.47
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	39.6	258	Pg	7:12:12.77	0.17
			Sg	12:17.24	-0.88
A336	45.9	216	Pg	7:12:13.99	0.26
			Sg	12:20.02	-0.10
PSZ	82.5	151	Pg	7:12:20.83	0.57
			Sg	12:31.01	-0.73
KECS	83.7	97	Pg	7:12:20.60	0.13
			Sg	12:31.32	-0.80

641.

2019-07-18 time: 7:24:53.05 UTC ML= 1.0
lat: 46.129N lon: 18.048E h= 0.0 km
erh= 1.8km erz= 257km
nr= 8 gap=289 rms=0.18
Locality: Hetvehely
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	6.0	139	Pg	7:24:54.01	-0.12
			Sg	24:55.16	0.19

Hypocenter Parameters

PKSV 31.0 149 Pg 7:24:58.64 0.04
Sg 25:01.98 -0.94
PKSM 46.7 79 Pg 7:25:01.57 0.17
Sg 25:08.06 0.16
MORH 47.0 78 Pg 7:25:01.37 -0.08
Sg 25:07.80 -0.20

642.

2019-07-18 time: 9:18:34.73 UTC ML= 1.9
lat: 46.951N lon: 22.247E h= 0.0 km
erh= 2.2km erz= 2.2km
nr= 25 gap=123 rms=0.80
Locality: Romania
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
DRGR	39.6	117	PgU	9:18:42.39	0.58
			Sg	18:47.27	-0.05
MARR	73.3	115	PgD	9:18:47.88	0.06
			Sg	18:57.20	-0.82
SIRR	88.3	211	PgD	9:18:51.60	1.10
			Sg	19:01.60	-1.21
CJR	106.5	104	PgC	9:18:53.36	-0.38
			Sg	19:06.00	-2.57
BMR	124.0	50	PgC	9:18:57.24	0.37
DEV	129.0	157	PgC	9:18:58.19	0.42
TRPA	132.9	10	Pn	9:18:57.18	-1.16
			Sn	19:15.98	-0.77
SURR	133.4	184	PnD	9:18:58.56	0.16
			Sn	19:15.10	-1.77
BZS	156.1	198	Pn	9:19:01.42	0.19
			Sn	19:21.22	-0.68
ABAH	167.6	333	Pn	9:19:01.98	-0.68
			Sn	19:23.90	-0.55
GZR	178.0	167	PnD	9:19:04.49	0.54
			Sn	19:26.60	-0.15
HERR	230.5	177	PnD	9:19:11.71	1.20
BURA	236.5	72	PnC	9:19:12.75	1.49
			Sn	19:40.30	0.56
MDVR	244.7	190	PnC	9:19:12.78	0.50
			Sn	19:41.70	0.13

643.

2019-07-18 time: 10:10:49.88 UTC ML= 1.4
lat: 47.863N lon: 19.160E h= 0.0 km
erh= 3.2km erz= 564km
nr= 8 gap=210 rms=0.40
Locality: Ősagárd
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	12.2	131	Pg	10:10:51.83	-0.22
			Sg	10:53.71	-0.04
A336	42.9	344	Pg	10:10:57.27	-0.27
			Sg	11:03.53	0.02
PSZ	55.3	84	Pg	10:10:59.97	0.21
			Sg	11:07.30	-0.16
VYHS	74.2	341	Pg	10:11:03.94	0.81
			Sg	11:12.79	-0.67

644.

2019-07-18 time: 11:58:11.41 UTC ML= 1.7
lat: 45.993N lon: 16.033E h= 0.6 km
erh= 0.7km erz=11.4km
nr= 6 gap=302 rms=0.14
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
PTJ	11.9	209	Pg	11:58:13.43	-0.11
			Sg	58:14.70	-0.50
ZAG	18.5	189	Pg	11:58:14.79	0.07

Hypocenter Parameters

CRES 48.4 247 Sg 58:17.35 0.04
Pg 11:58:20.15 0.09
Sg 58:26.90 0.09

645.

2019-07-19 time: 8:13:39.72 UTC ML= 1.2
lat: 47.194N lon: 18.311E h= 0.0 km
erh= 1.4km erz= 2.5km
nr= 13 gap=111 rms=0.42
Locality: Székesfehérvár
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	19.2	349	Pg	8:13:43.10	-0.05
			Sg	13:44.99	-0.82
PKST	22.1	289	Pg	8:13:43.64	-0.04
			Sg	13:46.29	-0.47
PKSG	22.8	15	Pg	8:13:43.90	0.11
			Sg	13:47.21	0.24
MPLH	58.5	267	Sg	8:13:58.96	0.63
MORH	111.7	167	Sg	8:14:14.73	-0.51
PKSM	112.1	167	Sg	8:14:15.00	-0.36
KOVH	124.0	187	Sg	8:14:19.21	0.07
PSZ	143.8	56	Pn	8:14:05.37	0.68
			Sn	14:23.44	-0.73
VYHS	149.8	15	Pn	8:14:05.79	0.36

646.

2019-07-19 time: 8:31:40.29 UTC ML= 2.1
lat: 48.237N lon: 21.285E h= 0.0 km
erh= 2.3km erz= 2.6km
nr= 18 gap=105 rms=0.86
Locality: Tállya
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	7.4	333	Pg	8:31:41.83	0.23
			Sg	31:42.30	-0.33
KECS	65.2	295	Pg	8:31:51.63	-0.31
			Sg	31:59.81	-1.21
TRPA	94.1	97	Sg	8:32:08.88	-1.31
KOLS	106.4	43	Sg	8:32:14.26	0.16
PSZ	109.5	251	Pg	8:32:00.09	0.25
			Sg	32:13.91	-1.18
STHS	131.2	359	eSn	8:32:20.70	-1.23
NIE	149.5	332	Pn	8:32:08.24	2.27
			Sn	32:26.49	0.49
A336	169.8	270	Sn	8:32:30.67	0.18
VYHS	183.7	279	Sn	8:32:34.27	0.70
KWP	186.8	34	Pn	8:32:10.84	0.22
DRGR	193.3	146	Pn	8:32:13.22	1.79
			Sn	32:34.79	-0.93

647.

2019-07-19 time: 10:18:53.80 UTC ML= 1.9
lat: 45.974N lon: 22.687E h= 3.1 km
erh= 2.0km erz= 2.7km
nr= 28 gap= 69 rms=1.06
Locality: Romania
Comments:

sta	dist	azm	phase	hr mn sec	res
DEV	19.6	121	PgC	10:18:57.83	0.49
			Sg	19:00.00	-0.10
SURR	50.1	241	PgC	10:19:03.66	0.90
			Sg	19:09.30	-0.45
GZR	64.9	174	PgC	10:19:05.83	0.42
			Sg	19:13.90	-0.57
MARR	84.8	23	PgC	10:19:09.32	0.37
			Sg	19:19.00	-1.77
SIRR	85.9	292	PgC	10:19:09.46	0.32
			Sg	19:20.50	-0.61

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DRGR	90.9	1	Pg	10:19:10.68	0.64
			Sg	19:20.93	-1.78
BZS	92.2	244	Pg	10:19:10.85	0.57
			Sg	19:20.45	-2.69
LOT	102.6	125	PgD	10:19:12.39	0.26
			Sg	19:24.50	-1.93
CJR	108.0	40	PgD	10:19:13.23	0.13
			Sg	19:27.20	-0.95
HERR	123.3	190	PnC	10:19:15.95	0.14
			Sn	19:30.70	-2.28
TNR	128.4	106	PnC	10:19:16.29	-0.15
			Sn	19:32.40	-1.69
MDVR	153.0	210	PnC	10:19:20.31	0.80
			Sn	19:40.10	0.54
ARCR	177.8	46	Pn	10:19:25.00	2.40
			Sn	19:47.70	2.64
VOIR	193.4	108	PnC	10:19:25.87	1.32
			Sn	19:48.50	-0.03

648.

2019-07-19 time: 13:06:01.54 UTC ML= 1.4
lat: 46.132N lon: 21.708E h= 10.0 km
erh= 3.9km erz= 2.7km
nr= 13 gap= 92 rms=0.83
Locality: Romania
Comments:

sta	dist	azm	phase	hr mn sec	res
SIRR	15.6	346	PgC	13:06:05.15	0.30
			Sg	06:07.50	0.07
BZS	57.7	187	Pg	13:06:11.38	-0.61
			Sg	06:18.50	-1.65
DRGR	106.4	46	P*	13:06:20.74	0.20
			S*	06:33.77	-1.59
GZR	116.8	135	PnC	13:06:22.67	0.81
			Sn	06:37.40	-0.31
MARR	124.2	61	PnD	13:06:23.75	0.96
			Sn	06:38.50	-0.86
MDVR	150.0	180	PnC	13:06:27.34	1.33
			Sn	06:45.80	0.71
PKB3	196.4	280	Sn	13:06:54.99	-0.39

649.

2019-07-19 time: 23:28:30.32 UTC ML= 0.1
lat: 47.377N lon: 18.140E h= 4.3 km
erh= 1.9km erz= 2.4km
nr= 6 gap=234 rms=0.06
Locality: Nagyveleg
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	9.2	100	Pg	23:28:32.24	0.10
			Sg	28:33.54	-0.02
PKST	15.4	211	PgD	23:28:33.15	-0.02
			Sg	28:35.36	-0.03
PKSG	19.0	85	Pg	23:28:33.80	0.00
			Sg	28:36.39	-0.12

650.

2019-07-20 time: 15:50:44.60 UTC ML= 1.2
lat: 47.462N lon: 18.836E h= 10.0 km
erh= 2.0km erz= 2.3km
nr= 16 gap=104 rms=0.66
Locality: Biatorbág
Comments:

sta	dist	azm	phase	hr mn sec	res
BUD	14.4	80	Pg	15:50:48.10	0.37
			Sg	50:49.85	-0.32
PKSG	34.5	257	Pg	15:50:51.62	0.60
			Sg	50:55.99	-0.03
CSKK	44.8	256	Sg	15:50:59.10	-0.09

Földrengés paraméterek

PENC 49.6 43 Pg 15:50:54.01 0.38
PKST 64.6 250 Sg 15:51:04.84 -0.55
A336 86.6 8 Pg 15:51:00.42 0.25
Sg 51:10.99 -1.32
PSZ 94.3 57 Pg 15:51:01.57 0.04
Sg 51:13.82 -0.92
PKB5 96.7 185 Sg 15:51:14.30 -1.20
PKS9 106.1 204 P* 15:51:03.90 0.35
S* 51:17.83 -0.51
VYHS 114.7 0 ePn 15:51:06.90 2.23
eSn 51:19.10 -1.22

651.

2019-07-20 time: 19:43:50.57 UTC ML= 0.0
lat: 47.364N lon: 18.233E h= 2.6 km
erh= 2.3km erz= 0.7km
nr= 6 gap=203 rms=0.04
Locality: Mór
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	2.1	93	Pg	19:43:51.23	0.07
			Sg	43:51.55	-0.08
PKSG	12.3	76	Pg	19:43:52.81	-0.01
			Sg	43:54.56	-0.01
PKST	19.0	232	Pg	19:43:53.99	-0.01
			Sg	43:56.67	-0.01

652.

2019-07-22 time: 7:12:37.82 UTC ML= 1.7
lat: 47.951N lon: 20.064E h= 0.0 km
erh= 2.7km erz= 557km
nr= 9 gap=187 rms=0.42
Locality: Mátraderecske
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	13.1	254	Pg	7:12:40.45	0.28
			Sg	12:42.64	0.64
PENC	61.2	253	Pg	7:12:48.74	0.00
			Sg	12:56.63	-0.63
KECS	67.0	28	Sg	7:12:59.43	0.31
ABAH	95.6	66	Pg	7:12:54.49	-0.40
			Sg	13:08.23	0.02
VYHS	109.4	304	Pg	7:12:57.55	0.19
			Sg	13:11.03	-1.57

653.

2019-07-22 time: 7:28:46.10 UTC ML= 1.6
lat: 48.312N lon: 18.922E h= 0.0 km
erh= 4.1km erz= 6.6km
nr= 13 gap=118 rms=1.01
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
A336	10.5	147	PgU	7:28:48.70	0.72
			Sg	28:50.29	0.85
VYHS	21.2	343	Pg	7:28:50.70	0.82
			Sg	28:53.80	0.98
PENC	63.9	155	Pg	7:28:57.91	0.39
			Sg	29:06.76	0.34
PSZ	84.7	121	Pg	7:29:01.83	0.61
			Sg	29:11.83	-1.18
KECS	117.4	81	ePg	7:29:05.40	-1.66
			eSg	29:18.70	-4.70*
MODS	122.1	273	ePg	7:29:06.60	-1.30
			eSg	29:22.20	-2.71
ABAH	172.0	91	Sn	7:29:36.19	-0.60

Hypocenter Parameters

654.

2019-07-22 time: 9:29:24.95 UTC ML= 1.5
lat: 48.838N lon: 20.083E h= 0.0 km
erh= 2.9km erz= ***km
nr= 12 gap=127 rms=0.84
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	49.4	143	Pg	9:29:33.33	-0.43
			Sg	29:39.18	-1.46
NIE	66.8	15	Sg	9:29:45.22	-0.95
VYHS	99.5	247	Pg	9:29:43.42	0.71
			Sg	29:55.02	-1.54
PSZ	103.2	188	Pg	9:29:44.41	1.03
			Sg	29:56.62	-1.13
ABAH	104.5	125	Pg	9:29:44.45	0.84
A336	104.5	230	Pg	9:29:43.97	0.36
			Sg	29:57.58	-0.59
STHS	106.4	53	ePg	9:29:44.00	0.05
			eSg	29:59.40	0.63

655.

2019-07-22 time: 10:46:17.42 UTC ML= 1.7
lat: 47.326N lon: 18.439E h= 0.0 km
erh= 2.0km erz= 3.6km
nr= 15 gap=114 rms=0.74
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	8.2	333	Pg	10:46:19.15	0.26
			Sg	46:19.48	-0.55
CSKK	14.1	287	Pg	10:46:20.67	0.73
			Sg	46:22.43	0.52
PKST	31.5	256	Pg	10:46:23.55	0.50
			Sg	46:27.19	-0.25
MPLH	70.3	256	Sg	10:46:38.64	-1.12
A336	109.3	23	Sg	10:46:51.46	-0.69
MORH	124.4	173	Sg	10:46:56.65	-0.31
PKSM	124.8	173	Sg	10:46:56.65	-0.44
PSZ	127.7	59	Pg	10:46:41.18	0.95
			Sg	46:57.37	-0.64
VYHS	133.2	13	Pn	10:46:41.79	0.72
			Sn	46:58.13	-1.38
MODS	145.4	323	ePn	10:46:41.30	-1.28
			eSn	46:57.50	-4.71*

656.

2019-07-22 time: 23:14:05.00 UTC ML= 2.2
lat: 47.460N lon: 19.869E h= 12.2 km
erh= 1.2km erz= 1.0km
nr= 47 gap= 38 rms=0.58
Locality: Jászberény
Comments: felt 3.5 EMS

sta	dist	azm	phase	hr mn sec	res
PSZ	51.0	2	Pg	23:14:13.92	-0.44
			Sg	14:20.99	-0.66
PENC	57.4	310	Pg	23:14:16.15	0.67
PKSN	62.6	180	Pg	23:14:17.19	0.80
BUD	63.7	272	Sg	23:14:24.22	-1.41
PKS7	70.6	229	Pg	23:14:17.77	-0.01
			Sg	14:27.32	-0.44
PKS6	98.4	194	P*	23:14:22.61	0.04
			S*	14:35.22	-1.06
PKB2	99.5	209	P*	23:14:22.66	-0.08
			S*	14:35.77	-0.81
A336	107.8	323	Pn	23:14:24.26	0.34
PKSG	111.8	266	Pn	23:14:24.51	0.10
			Sn	14:38.83	-0.73
PKS2	118.6	205	Pn	23:14:25.48	0.21

Hypocenter Parameters

		Sn	14:40.38	-0.70	
CSKK	121.9	265	Pn	23:14:26.21	0.54
		Sn	14:40.97	-0.82	
KECS	122.7	22	Pn	23:14:26.05	0.27
		Sn	14:41.31	-0.67	
PKB3	126.1	204	Pn	23:14:26.89	0.69
PKB5	129.1	222	Pn	23:14:27.04	0.47
		Sn	14:43.17	-0.23	
A338	129.4	298	Pn	23:14:27.94	1.33
ABAH	138.4	48	Pn	23:14:27.79	0.06
		Sn	14:45.52	0.06	
VYHS	138.4	326	Pn	23:14:28.39	0.66
PKST	140.4	261	Pn	23:14:28.45	0.47
		Sn	14:45.31	-0.59	
PKS9	155.0	231	Pn	23:14:29.73	-0.07
MORH	166.9	214	Pn	23:14:30.52	-0.77
PKSM	167.4	214	Pn	23:14:30.53	-0.82
KOVH	203.7	222	Pn	23:14:35.26	-0.62
DRGR	228.1	109	Pn	23:14:38.82	-0.10
STHS	240.2	25	ePn	23:14:42.50	2.08
		eSn	15:10.00	1.95*	
KOLS	242.4	48	eSn	23:15:08.30	-0.26
BZS	244.9	147	Pn	23:14:41.18	0.17
FRGS	258.5	181	Pn	23:14:43.01	0.31
KRLC	368.9	322	ePn	23:14:59.70	3.23*
BBL5	400.9	185	Pn	23:15:01.11	0.65*

657.

2019-07-22 time: 23:15:06.12 UTC ML= 1.5
lat: 47.502N lon: 19.804E h= 10.0 km
erh= 2.0km erz= 1.4km
nr= 19 gap=125 rms=0.56
Locality: Jászfelsőszentgyörgy
Comments:

sta	dist	azm	phase	hr mn sec	res
PSZ	46.8	8	Pg	23:15:15.00	0.34
			Sg	15:21.30	-0.03
PKSN	67.4	176	Sg	23:15:27.39	-0.40
PKS7	70.2	224	Pg	23:15:18.58	-0.21
			Sg	15:28.37	-0.29
PKSG	107.3	263	P*	23:15:25.07	-0.19
			S*	15:39.33	-0.86
CSKK	117.5	262	Sn	23:15:42.34	-0.10
KECS	120.4	25	Sn	23:15:42.19	-0.89
PKS2	121.0	202	Pn	23:15:27.50	0.54
			Sn	15:42.93	-0.29
PKB5	129.5	219	Pn	23:15:28.01	-0.01
			Sn	15:44.05	-1.06
VYHS	131.8	327	Pn	23:15:28.88	0.56
PKST	136.4	259	Pn	23:15:30.01	1.13
			Sn	15:45.96	-0.67
ABAH	139.0	51	Sn	23:15:46.77	-0.44
MORH	168.2	212	Sn	23:15:55.06	1.37
PKSM	168.6	212	Sn	23:15:54.44	0.64

658.

2019-07-23 time: 8:10:51.76 UTC ML= 1.3
lat: 45.855N lon: 18.409E h= 0.0 km
erh= 1.1km erz= 169km
nr= 8 gap=263 rms=0.12
Locality: Nagyharsány
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSV	12.8	287	Pg	8:10:53.98	-0.06
			Sg	10:54.86	-0.96
KOVH	35.3	317	Pg	8:10:58.19	0.12
			Sg	11:02.96	-0.03
PKSM	43.6	24	Pg	8:10:59.59	0.05
			Sg	11:05.58	-0.02
MORH	44.0	24	Pg	8:10:59.66	0.03
			Sg	11:05.63	-0.13

Földrengés paraméterek

659.

2019-07-24 time: 5:53:35.37 UTC ML= 1.2
lat: 47.883N lon: 19.397E h= 0.0 km
erh= 1.0km erz= 255km
nr= 5 gap=136 rms=0.12
Locality: Bercel
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	13.4	220	Pg	5:53:37.75	-0.01
			Sg	53:39.66	0.03
PSZ	37.4	84	Pg	5:53:41.97	-0.09
			Sg	53:47.64	0.37
A336	49.0	323	Sg	5:53:50.90	-0.03

660.

2019-07-24 time: 7:23:01.31 UTC ML= 1.6
lat: 47.323N lon: 18.419E h= 0.0 km
erh= 5.6km erz= ***km
nr= 6 gap=188 rms=0.69
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	8.0	344	PgU	7:23:03.00	0.26
			Sg	23:03.36	-0.48
CSKK	12.8	291	Sg	7:23:04.25	-1.13
PKST	29.9	256	Pg	7:23:07.61	0.95
MORH	124.3	172	Sg	7:23:40.34	-0.47
PKSM	124.7	172	Sg	7:23:40.49	-0.45

661.

2019-07-24 time: 9:20:10.47 UTC ML= 0.7
lat: 47.220N lon: 18.228E h= 0.0 km
erh= 3.4km erz= 415km
nr= 6 gap=254 rms=0.25
Locality: Csór
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	15.3	287	Pg	9:20:13.25	0.06
			Sg	20:14.80	-0.51
CSKK	16.1	9	Pg	9:20:13.63	0.28
			Sg	20:15.87	0.28
PKSG	22.8	33	Pg	9:20:14.33	-0.20
			Sg	20:17.57	-0.13

662.

2019-07-25 time: 8:29:33.67 UTC ML= 1.6
lat: 48.446N lon: 19.122E h= 0.0 km
erh= 4.0km erz= ***km
nr= 8 gap=164 rms=0.89
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
VYHS	21.8	284	Pg	8:29:38.36	0.79
			Sg	29:39.68	-0.93
A336	25.4	201	Pg	8:29:38.56	0.36
			Sg	29:40.09	-1.65
PENC	73.9	171	Sg	8:29:58.05	0.90
PSZ	82.1	136	Sg	8:29:58.26	-1.50
KECS	100.9	88	ePg	8:29:52.00	0.31
			eSg	30:05.80	0.06

Földrengés paraméterek

663.

2019-07-25 time: 8:51:41.66 UTC ML= 1.6
lat: 47.870N lon: 19.181E h= 0.0 km
erh= 2.7km erz= 500km
nr= 7 gap=200 rms=0.34
Locality: Ősagárd
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	11.6	140	Pg	8:51:43.62	-0.12
			Sg	51:45.00	-0.36
A336	42.6	341	Pg	8:51:49.32	0.06
			Sg	51:54.97	-0.22
PSZ	53.6	84	Sg	8:51:59.09	0.39
VYHS	73.9	340	Pg	8:51:55.33	0.46
			Sg	52:04.49	-0.68

664.

2019-07-27 time: 6:29:07.78 UTC ML= 1.3
lat: 46.110N lon: 18.043E h= 0.0 km
erh= 3.2km erz= 637km
nr= 11 gap=232 rms=0.51
Locality: Bükkösd
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	5.0	119	Pg	6:29:08.61	-0.07
			Sg	29:10.03	0.66
PKSV	29.5	147	Pg	6:29:12.97	-0.07
			Sg	29:17.26	0.11
PKSM	47.6	76	Pg	6:29:15.89	-0.39
			Sg	29:22.40	-0.51
MORH	47.9	76	Pg	6:29:16.09	-0.24
			Sg	29:22.47	-0.54
PKS9	56.0	19	Sg	6:29:24.96	-0.63
PKB5	75.8	45	Pg	6:29:22.28	0.96
			Sg	29:32.76	0.88

665.

2019-07-28 time: 7:23:02.74 UTC ML= 1.9
lat: 46.222N lon: 16.648E h= 6.7 km
erh= 2.0km erz= 1.9km
nr= 18 gap=182 rms=0.50
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
BEHE	29.3	20	Pg	7:23:08.02	-0.10
			Sg	23:09.70	-2.60*
KOGS	39.7	309	Pg	7:23:10.61	0.68
			Sg	23:14.93	-0.60
PTJ	64.3	236	Sg	7:23:22.98	-0.30
ZAG	66.9	229	Sg	7:23:24.03	-0.07
GOLS	82.5	254	iPg	7:23:17.49	-0.04
			eSg	23:28.76	-0.31
DOBS	91.4	265	iPg	7:23:18.83	-0.28
CRES	102.2	245	Pg	7:23:21.13	0.10
			Sg	23:34.78	-0.52
ARSA	143.1	323	Pn	7:23:27.34	0.57
			Sn	23:44.23	-1.28
RONA	166.5	351	Pn	7:23:30.58	0.89
			Sn	23:50.54	-0.16

666.

2019-07-28 time: 22:59:04.13 UTC ML= 1.6
lat: 47.921N lon: 16.991E h= 10.0 km
erh= 2.4km erz= 2.3km
nr= 24 gap= 81 rms=0.92
Locality: Austria
Comments:

Hypocenter Parameters

sta	dist	azm	phase	hr mn sec	res
MODS	54.6	23	ePg	22:59:11.10	-2.95
RONA	57.6	245	Pg	22:59:14.65	0.09
			Sg	59:21.41	-1.29
EGYH	61.6	155	Pg	22:59:15.98	0.71
			Sg	59:23.55	-0.41
CONA	84.4	271	Pg	22:59:19.38	0.07
			Sg	59:29.69	-1.46
SRO	99.7	97	ePg	22:59:23.10	1.09
			eSg	59:35.10	-0.86
PKST	107.6	133	Pn	22:59:23.61	0.31
			Sn	59:36.56	-1.69
PKSG	120.5	119	Pn	22:59:24.56	-0.35
			Sn	59:39.34	-1.77
ARSA	133.2	236	Pn	22:59:28.01	1.51
			Sn	59:43.60	-0.34
KRUC	134.3	341	Pn	22:59:26.88	0.26
			Sn	59:42.81	-1.36
VYHS	151.2	65	Sn	22:59:47.62	-0.31
VRAC	157.0	349	Pn	22:59:30.05	0.59
			Sn	59:48.37	-0.85
TREC	188.8	324	eSn	22:59:56.20	-0.07
MOA	204.0	268	Pn	22:59:36.33	1.01
MORC	210.3	11	Pn	22:59:37.70	1.60
			Sn	23:00:01.27	0.22

667.

2019-07-29 time: 7:36:59.29 UTC ML= 2.2
lat: 47.072N lon: 17.857E h= 0.0 km
erh= 3.0km erz= 489km
nr= 7 gap=221 rms=0.34
Locality: Nemesvámos
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
TIH	19.3	172	Pg	7:37:02.45	-0.29
			Sg	37:05.63	0.21
PKST	24.8	33	Pg	7:37:03.98	0.26
			Sg	37:07.79	0.62
CSKK	44.6	43	Pg	7:37:07.26	0.01
			Sg	37:12.73	-0.72
PKB5	85.5	128	Sg	7:37:26.32	-0.14

668.

2019-07-29 time: 10:29:00.30 UTC ML= 1.5
lat: 47.085N lon: 17.890E h= 0.0 km
erh= 2.9km erz= 599km
nr= 12 gap=210 rms=0.50
Locality: Veszprém
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
TIH	20.6	179	Pg	10:29:03.99	0.01
			Sg	29:07.30	0.46
PKST	22.2	30	Pg	10:29:04.17	-0.10
			Sg	29:07.63	0.26
CSKK	41.8	42	Pg	10:29:07.71	-0.05
			Sg	29:12.89	-0.69
PKB5	84.5	130	Pg	10:29:16.29	0.91
			Sg	29:27.54	0.39
MORH	112.6	149	Pg	10:29:20.27	-0.13
			Sg	29:35.03	-1.06
PKSM	112.8	149	Pg	10:29:20.47	0.02
			Sg	29:34.93	-1.24

Hypocenter Parameters

669.

2019-07-30 time: 6:21:43.50 UTC ML= 0.8
lat: 47.402N lon: 18.272E h= 10.0 km
erh= 2.0km erz= 1.5km
nr= 8 gap=229 rms=0.24
Locality: Pusztavám
Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	4.4	191	Pg	6:21:45.65		0.19	
			Sg		21:46.53	-0.45	
PKSG	9.0	97	Pg	6:21:45.97		0.06	
			Sg		21:47.77	-0.02	
PKST	24.0	228	Pg	6:21:48.05		-0.10	
			Sg		21:51.88	0.11	
PKS9	90.6	180	Sg	6:22:12.71		0.22	
PKSM	135.3	168	Sn	6:22:22.63		-1.15	

670.

2019-07-30 time: 9:07:34.13 UTC ML= 1.3
lat: 47.187N lon: 18.308E h= 0.0 km
erh= 1.3km erz= 152km
nr= 6 gap=276 rms=0.09
Locality: Székesfehérvár
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	19.9	350	Pg	9:07:37.74		0.05	
			Sg		07:40.18	-0.28	
PKST	22.2	291	Pg	9:07:38.10		0.00	
			Sg		07:41.22	0.02	
PKSG	23.6	15	Pg	9:07:38.30		-0.05	
			Sg		07:41.77	0.13	

671.

2019-07-30 time: 9:32:34.35 UTC ML= 1.4
lat: 48.604N lon: 20.736E h= 0.0 km
erh= 1.3km erz= 2.0km
nr= 10 gap=117 rms=0.34
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	22.8	234	Pg	9:32:38.76		0.34	
			Sg		32:41.27	-0.33	
ABAH	50.5	133	Pg	9:32:43.33		-0.04	
			Sg		32:50.06	-0.35	
STHS	97.8	22	ePg	9:32:51.90		0.10	
			eSg		33:03.50	-1.92*	
PSZ	98.5	219	Pg	9:32:52.27		0.33	
			Sg		33:05.47	-0.20	
VYHS	140.8	265	Pn	9:32:59.05		0.11	
			Sn		33:17.12	-1.00	

672.

2019-07-31 time: 6:46:21.40 UTC ML= 2.0
lat: 47.332N lon: 18.465E h= 0.0 km
erh= 3.2km erz= 4.9km
nr= 8 gap=162 rms=0.44
Locality: Lovasberény
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSG	8.7	320	PgU	6:46:23.03		0.08	
			Sg		46:23.36	-0.79	
CSKK	15.8	282	Pg	6:46:24.53		0.31	
			Sg		46:26.09	-0.34	
PKST	33.6	256	Pg	6:46:27.94		0.55	
			Sg		46:31.97	-0.10	
PKSM	125.3	174	Sg	6:47:00.39		-0.84	

Földrengés paraméterek

VYHS 132.1 12 Sn 6:47:03.15 -0.09

673.

2019-07-31 time: 6:47:09.55 UTC ML= 1.2
lat: 47.411N lon: 18.344E h= 0.0 km
erh= 9.6km erz= 846km
nr= 5 gap=247 rms=0.42
Locality: Gánt
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSG	4.1	121	Pg	6:47:10.09		-0.19	
			Sg		47:10.72	-0.14	
CSKK	8.2	230	Sg	6:47:11.40		-0.76	
PKST	28.9	234	Pg	6:47:14.99		0.29	
			Sg		47:19.41	0.69	

674.

2019-07-31 time: 8:17:47.73 UTC ML= 2.0
lat: 47.335N lon: 18.397E h= 0.0 km
erh= 2.1km erz= 4.4km
nr= 14 gap=103 rms=0.78
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSG	6.3	355	PgU	8:17:48.90		0.04	
			Sg		17:49.73	-0.01	
CSKK	10.8	287	Pg	8:17:50.44		0.78	
			Sg		17:51.06	-0.11	
PKST	28.7	253	Sg	8:17:56.25		-0.61	
PKB5	86.2	163	Sg	8:18:16.31		1.19	
A336	109.6	24	Pg	8:18:07.94		0.65	
			Sg		18:21.18	-1.38	
MORH	125.8	171	Sg	8:18:26.66		-1.06	
PKSM	126.2	172	Sg	8:18:26.51		-1.34	
PSZ	129.9	60	Pg	8:18:11.63		0.71	
			Sg		18:28.51	-0.50	
VYHS	133.0	14	Pn	8:18:11.44		0.10	
			Sn		18:28.06	-1.70	

675.

2019-07-31 time: 10:01:39.99 UTC ML= 1.3
lat: 47.177N lon: 18.296E h= 0.0 km
erh= 1.6km erz= 196km
nr= 6 gap=278 rms=0.12
Locality: Sárkeszi
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	20.9	353	Pg	10:01:43.67		-0.05	
			Sg		01:46.28	-0.35	
PKST	21.8	295	Pg	10:01:43.92		0.04	
			Sg		01:46.94	0.02	
PKSG	25.0	17	Pg	10:01:44.45		0.01	
			Sg		01:48.14	0.22	

676.

2019-07-31 time: 10:30:55.89 UTC ML= 1.3
lat: 47.390N lon: 18.451E h= 0.0 km
erh= 3.6km erz= 5.8km
nr= 8 gap=112 rms=0.57
Locality: Csákvár
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSG	4.6	272	Pg	10:30:57.00		0.29	
			Sg		30:57.57	0.22	
CSKK	14.7	258	Pg	10:30:59.13		0.61	
			Sg		31:00.21	-0.37	

Földrengés paraméterek

PKST 34.7 245 Sg 10:31:06.16 -0.78
PSZ 123.3 62 Sg 10:31:35.53 0.45
VYHS 126.1 13 Sg 10:31:35.38 -0.58
PKSM 131.8 174 Sn 10:31:36.53 -1.13

677.

2019-07-31 time: 11:04:53.53 UTC ML= 1.5
lat: 48.525N lon: 20.799E h= 0.0 km
erh= 3.4km erz= 3.9km
nr= 8 gap=128 rms=0.71
Locality: Bódvalenke
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.6	259	Pg	11:04:57.84	0.09
			Sg	05:00.27	-0.78
ABAH	41.4	128	Pg	11:05:01.63	0.71
			Sg	05:07.05	0.36
NIE	105.5	340	Pg	11:05:13.07	0.69
KOLS	117.5	67	Sg	11:05:29.34	-1.56
A336	137.3	256	Sn	11:05:35.87	-0.65
VYHS	145.1	269	Sn	11:05:37.53	-0.73

678.

2019-08-01 time: 7:14:49.96 UTC ML= 1.0
lat: 47.197N lon: 18.214E h= 0.0 km
erh= 0.8km erz= 214km
nr= 8 gap=134 rms=0.15
Locality: Csór
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	15.3	297	PgU	7:14:52.60	-0.09
			Sg	14:55.09	0.27
CSKK	18.8	11	Pg	7:14:53.30	-0.02
			Sg	14:56.07	0.13
PKSG	25.5	32	Pg	7:14:54.28	-0.22
			Sg	14:58.14	0.09
MORH	113.9	163	Pg	7:15:10.50	0.21
PKSM	114.3	163	Pg	7:15:10.25	-0.11

679.

2019-08-01 time: 7:23:08.38 UTC ML= 1.2
lat: 47.175N lon: 18.223E h= 0.0 km
erh= 0.5km erz=55.0km
nr= 5 gap=275 rms=0.02
Locality: Csór
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	17.1	303	PgU	7:23:11.46	0.03
			Sg	23:13.77	-0.04
CSKK	21.1	8	Pg	7:23:12.14	0.00
			Sg	23:15.11	0.03
PKSG	27.2	28	Pg	7:23:13.22	-0.02

680.

2019-08-01 time: 8:11:52.78 UTC ML= 1.2
lat: 48.576N lon: 20.738E h= 0.0 km
erh= 3.1km erz= 4.1km
nr= 12 gap=115 rms=0.88
Locality: Tornanádaska
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	21.4	241	Pg	8:11:57.05	0.45
			Sg	12:00.01	0.44
ABAH	48.4	130	Pg	8:12:01.17	-0.27
			Sg	12:07.29	-0.89
PSZ	96.3	221	Pg	8:12:10.40	0.41

Hypocenter Parameters

STHS 100.5 22 ePg 8:12:10.40 -0.33
eSg 12:24.70 -0.03
KOLS 119.6 71 ePg 8:12:18.00 3.85
eSg 12:29.80 -1.01
A336 134.3 253 Sn 8:12:35.01 -0.11
VYHS 140.8 266 Pn 8:12:17.38 0.01
Sn 12:34.76 -1.79

681.

2019-08-01 time: 12:14:16.83 UTC ML= 1.8
lat: 48.250N lon: 21.255E h= 0.0 km
erh= 2.1km erz= 3.3km
nr= 12 gap=152 rms=0.60
Locality: Tállya
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	5.2	347	PgU	12:14:17.82	0.06
			Sg	14:19.20	0.71
KECS	62.6	294	Pg	12:14:27.94	-0.07
			Sg	14:36.00	-0.73
TRPA	96.4	98	Pg	12:14:33.92	-0.13
			Sg	14:46.82	-0.66
KOLS	106.8	45	ePg	12:14:36.40	0.50
			eSg	14:53.20	2.42*
PSZ	107.9	250	Pg	12:14:36.89	0.80
			Sg	14:50.33	-0.78
NIE	147.2	332	Sn	12:15:00.60	-1.42
VYHS	181.2	279	Sn	12:15:09.79	0.22

682.

2019-08-02 time: 7:54:52.70 UTC ML= 2.1
lat: 48.287N lon: 21.517E h= 0.0 km
erh= 2.3km erz= 599km
nr= 8 gap=148 rms=0.45
Locality: Bodrogolaszi
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	20.7	273	Pg	7:54:56.32	-0.06
			Sg	54:59.59	0.33
TRPA	77.9	103	Pg	7:55:06.52	-0.09
			Sg	55:17.68	0.22
KECS	79.5	286	Pg	7:55:17.73	-0.23
KOLS	90.9	38	Pg	7:55:09.59	0.66
			Sg	55:21.08	-0.52
PSZ	127.6	251	Sg	7:55:32.18	-1.09

683.

2019-08-02 time: 8:35:17.94 UTC ML= 1.5
lat: 48.361N lon: 19.854E h= 0.0 km
erh= 1.2km erz= 448km
nr= 11 gap=103 rms=0.37
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	48.7	74	Pg	8:35:26.80	0.16
			Sg	35:32.94	-0.49
PSZ	49.3	176	PgU	8:35:27.00	0.25
			Sg	35:33.55	-0.07
A336	65.0	257	Pg	8:35:29.91	0.36
			Sg	35:37.78	-0.82
VYHS	76.7	281	Pg	8:35:31.67	0.03
			Sg	35:41.10	-1.23
LANS	92.2	342	ePg	8:35:34.50	0.09
			eSg	35:46.60	-0.66
NIE	122.4	16	Pg	8:35:39.95	0.16

Hypocenter Parameters

684.

2019-08-02 time: 8:44:49.05 UTC ML= 1.1
lat: 46.184N lon: 18.279E h= 0.0 km
erh= 0.9km erz= 150km
nr= 8 gap=210 rms=0.11
Locality: Zobákpusztá
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	17.4	233	Pg	8:44:52.09	-0.07
			Sg	44:54.97	0.38
PKSM	28.1	84	Pg	8:44:53.99	-0.08
			Sg	44:58.19	0.20
MORH	28.4	83	Pg	8:44:54.14	0.02
			Sg	44:58.06	-0.02
PKSV	32.9	184	Pg	8:44:54.96	0.04
			Sg	44:59.39	-0.11

685.

2019-08-02 time: 9:38:58.78 UTC ML= 1.8
lat: 46.122N lon: 18.084E h= 0.0 km
erh= 2.8km erz= 613km
nr= 7 gap=215 rms=0.41
Locality: Abaliget
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	4.0	162	Pg	9:38:59.17	-0.32
			Sg	39:00.50	0.45
PKSV	29.1	153	Sg	9:39:07.77	-0.26
PKSM	44.2	77	Sg	9:39:12.29	-0.54
MORH	44.5	76	Sg	9:39:12.98	0.05
PKS9	53.8	16	Pg	9:39:08.24	-0.15
PKB5	72.7	44	Pg	9:39:12.44	0.68

686.

2019-08-02 time: 10:28:44.74 UTC ML= 2.0
lat: 47.188N lon: 18.306E h= 0.0 km
erh= 3.7km erz= 405km
nr= 5 gap=275 rms=0.19
Locality: Székesfehérvár
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	19.8	350	Pg	10:28:48.21	-0.07
			Sg	28:50.60	-0.43
PKST	22.0	291	Pg	10:28:48.73	0.05
			Sg	28:51.83	0.08
PKSG	23.6	16	Sg	10:28:52.54	0.31

687.

2019-08-02 time: 12:14:49.46 UTC ML= 1.6
lat: 48.324N lon: 21.543E h= 0.0 km
erh= 3.3km erz= 736km
nr= 7 gap=156 rms=0.48
Locality: Hercegkút
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	22.7	262	Pg	12:14:53.91	0.39
			Sg	14:57.03	0.35
TRPA	77.1	106	Pg	12:15:03.48	0.25
			Sg	15:13.25	-0.72
KECS	80.2	283	Pg	12:15:03.57	-0.22
			Sg	15:13.71	-1.26
KOLS	86.5	38	Sg	12:15:17.26	0.29

Földrengés paraméterek

688.

2019-08-02 time: 17:50:26.41 UTC ML= 1.6
lat: 47.822N lon: 18.340E h= 10.0 km
erh= 2.4km erz= 3.1km
nr= 12 gap=128 rms=0.67
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr mn sec	res
SRO	2.3	243	Pg	17:50:28.45	0.21
			Sg	50:28.99	-0.67
A338	21.5	2	Pg	17:50:31.98	1.35
			Sg	50:33.83	-0.10
PKSG	48.0	175	Sg	17:50:42.13	0.13
A339	51.3	271	Sg	17:50:42.26	-0.75
CSKK	51.4	187	Sg	17:50:42.88	-0.17
PKST	66.7	200	Sg	17:50:48.00	0.14
A336	67.1	47	Sg	17:50:47.35	-0.61
			Pg	17:50:41.78	0.39
VYHS	83.3	26	Sg	50:51.72	-1.35
			Sg	17:50:54.28	-0.34

689.

2019-08-02 time: 22:34:31.66 UTC ML= 1.9
lat: 45.903N lon: 17.196E h= 10.0 km
erh= 3.1km erz= 2.1km
nr= 20 gap=175 rms=0.83
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
BEHE	70.9	333	Pg	22:34:45.11	0.67
			Sg	34:54.80	0.39
KOVH	73.0	74	Pg	22:34:45.44	0.63
			Sg	34:55.07	0.00
PKSV	82.0	91	Pg	22:34:46.57	0.16
			Sg	34:56.79	-1.12
KOGS	94.9	310	Pg	22:34:48.61	-0.09
			Sg	34:59.93	-2.05
PTJ	96.1	270	Pg	22:34:48.64	-0.27
			Sg	35:00.86	-1.51
PKS9	112.9	48	Pn	22:34:51.40	-0.09
			Sn	35:05.45	-1.51
MORH	117.3	73	Pn	22:34:51.37	-0.67
			Sn	35:07.00	-0.94
CRES	135.3	266	Pn	22:34:55.78	1.49
			Sn	35:10.97	-0.98
PKB5	141.4	57	Pn	22:34:56.08	1.03
			Sn	35:13.08	-0.22
PKST	163.8	23	Pn	22:34:58.67	0.83
			Sn	35:18.13	-0.13

690.

2019-08-05 time: 1:27:25.17 UTC ML= 0.5
lat: 47.400N lon: 18.117E h= 0.7 km
erh= 7.4km erz= 86.7km
nr= 6 gap=251 rms=0.22
Locality: Aka
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	11.6	111	Pg	1:27:27.63	0.38
			Sg	27:28.66	-0.21
PKST	16.9	202	Pg	1:27:28.20	0.01
			Sg	27:30.37	-0.18
PKSG	20.7	93	Pg	1:27:28.86	-0.01
			Sg	27:31.47	-0.29

Földrengés paraméterek

691.

2019-08-05 time: 8:09:43.24 UTC ML= 1.7
lat: 47.906N lon: 19.414E h= 0.0 km
erh= 1.4km erz= 555km
nr= 14 gap=127 rms=0.47
Locality: Becske
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	16.2	218	Pg	8:09:46.09	-0.05
			Sg	09:48.36	-0.04
PSZ	35.9	88	Pg	8:09:49.45	-0.20
			Sg	09:55.15	0.49
A336	47.7	320	Pg	8:09:52.54	0.78
			Sg	09:58.10	-0.31
VYHS	78.2	327	Pg	8:09:57.55	0.35
			Sg	10:07.36	-0.74
PKSG	95.8	233	Sg	8:10:12.88	-0.82
KECS	102.3	51	Sg	8:10:14.52	-1.23

692.

2019-08-05 time: 9:51:57.54 UTC ML= 1.7
lat: 48.571N lon: 20.385E h= 0.0 km
erh= 2.1km erz= 789km
nr= 13 gap= 93 rms=0.66
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	12.3	143	Pg	9:51:59.39	-0.34
			Sg	52:00.86	-0.58
PSZ	81.2	207	Pg	9:52:12.63	0.59
			Sg	52:22.92	-0.43
LANS	93.2	314	Pg	9:52:14.27	0.09
			Sg	52:25.56	-1.60
STHS	113.1	34	ePg	9:52:18.70	0.97
			eSg	52:33.30	-0.18
VYHS	114.7	266	Pg	9:52:18.73	0.70
			Sg	52:32.22	-1.79

693.

2019-08-06 time: 8:12:29.78 UTC ML= 1.3
lat: 48.604N lon: 20.753E h= 0.0 km
erh= 1.6km erz= 4.2km
nr= 11 gap= 86 rms=0.45
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.9	236	Pg	8:12:34.16	0.11
			Sg	12:37.63	0.26
ABAH	49.7	134	Pg	8:12:39.26	0.60
			Sg	12:44.98	-0.61
STHS	97.2	22	ePg	8:12:47.30	0.15
			eSg	12:59.90	-0.79
PSZ	99.4	220	Pg	8:12:47.14	-0.39
			Sg	13:00.82	-0.55
LANS	112.1	303	Pg	8:12:49.85	0.04
KOLS	117.6	72	Sg	8:13:05.32	-1.85
VYHS	142.0	265	Pn	8:12:54.97	0.44

694.

2019-08-06 time: 11:04:22.54 UTC ML= 1.6
lat: 47.840N lon: 20.151E h= 0.0 km
erh= 3.6km erz= ***km
nr= 9 gap=114 rms=0.89
Locality: Kisnána
Comments: probably explosion

Hypocenter Parameters

sta	dist	azm	phase	hr mn sec	res
PSZ	21.1	294	Pg	11:04:26.53	0.23
			Sg	04:29.14	-0.10
BSZH	60.7	172	Sg	11:04:40.70	-1.15
PENC	65.3	265	Pg	11:04:34.93	0.72
			Sg	04:44.44	1.13
KECS	75.7	19	Sg	11:04:45.84	-0.76
ABAH	95.6	58	Sg	11:04:53.80	0.85
VYHS	121.9	307	Pg	11:04:43.75	-0.55
			Sg	04:57.51	-3.77

695.

2019-08-06 time: 17:33:18.82 UTC ML= 1.1
lat: 47.199N lon: 18.373E h= 2.2 km
erh= 1.5km erz=13.7km
nr= 6 gap=281 rms=0.10
Locality: Székesfehérvár
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	20.1	335	Pg	17:33:22.53	0.10
			Sg	33:25.41	0.16
PKSG	21.4	4	Pg	17:33:22.63	-0.04
			Sg	33:25.53	-0.14
PKST	26.5	285	Pg	17:33:23.57	0.00
			Sg	33:27.12	-0.15

696.

2019-08-07 time: 8:16:20.21 UTC ML= 1.8
lat: 47.784N lon: 19.032E h= 0.0 km
erh= 1.2km erz= 448km
nr= 10 gap=122 rms=0.35
Locality: Dunabogdány
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	18.8	88	Pg	8:16:24.06	0.50
			Sg	16:25.63	-0.54
BUD	33.4	181	Sg	8:16:30.59	-0.24
A336	50.0	357	Pg	8:16:29.50	0.37
			Sg	16:36.37	0.28
PKSG	65.0	228	Sg	8:16:40.56	-0.31
PSZ	66.3	77	Sg	8:16:40.98	-0.30
VYHS	80.3	350	Sg	8:16:45.29	-0.43

697.

2019-08-07 time: 8:37:37.51 UTC ML= 1.4
lat: 48.615N lon: 20.741E h= 0.0 km
erh= 1.6km erz= 3.5km
nr= 11 gap=112 rms=0.41
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.9	232	Pg	8:37:41.87	0.09
			Sg	37:44.38	-0.73
ABAH	51.2	134	Pg	8:37:46.46	-0.19
			Sg	37:53.37	-0.41
STHS	96.4	22	ePg	8:37:55.20	0.48
			eSg	38:07.10	-1.04
PSZ	99.8	219	Pg	8:37:55.68	0.35
			Sg	38:09.38	0.15
LANS	110.7	303	Pg	8:37:57.19	-0.09
VYHS	141.3	265	Pn	8:38:02.50	0.35
			Sn	38:19.64	-1.74

Hypocenter Parameters

698.

2019-08-07 time: 9:14:11.51 UTC ML= 1.8
lat: 48.597N lon: 21.427E h= 0.7 km
erh= 3.9km erz= 5.9km
nr= 12 gap=126 rms=1.00
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr	mn	sec	res
ABAH	36.3	203	Pg	9:14:17.99		0.00	
			Sg		14:24.52		1.48
KECS	70.7	260	Pg	9:14:23.10		-1.03	
			Sg		14:32.31		-1.66
KOLS	72.5	59	Pg	9:14:25.75		1.29	
			Sg		14:33.56		-1.01
TRPA	97.4	122	Pg	9:14:28.67		-0.23	
			Sg		14:40.84		-1.63
LANS	156.3	293	Pn	9:14:39.09		1.14	
A336	184.3	257	Pn	9:14:42.06		0.63	
VYHS	191.7	267	Pn	9:14:42.28		-0.07	
			Sn		15:07.03		0.62

699.

2019-08-07 time: 9:51:29.34 UTC ML= 1.4
lat: 48.597N lon: 20.877E h= 0.0 km
erh= 2.7km erz= 6.5km
nr= 10 gap=111 rms=0.64
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	31.6	246	Pg	9:51:35.03		0.05	
			Sg		51:37.94		-1.43
ABAH	42.9	141	Pg	9:51:37.14		0.13	
			Sg		51:43.01		0.02
STHS	95.0	16	ePg	9:51:47.40		1.10	
			eSg		51:56.90		-2.63*
PSZ	105.0	224	Pg	9:51:48.28		0.19	
			Sg		52:02.64		-0.07
KOLS	109.2	70	Sg	9:52:02.94		-1.12	
VYHS	151.1	266	Pn	9:51:55.36		0.14	

700.

2019-08-08 time: 5:57:18.33 UTC ML= 1.3
lat: 47.865N lon: 19.986E h= 0.0 km
erh= 2.1km erz= 383km
nr= 8 gap=224 rms=0.29
Locality: Mátraháza
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PSZ	9.1	311	Pg	5:57:19.92		-0.03	
			Sg		57:21.94		0.73
KECS	78.1	28	Sg	5:57:43.03		-0.14	
VYHS	110.5	309	ePg	5:57:38.20		0.14	
			eSg		57:51.90		-1.54*

701.

2019-08-08 time: 6:50:58.00 UTC ML= 1.5
lat: 47.360N lon: 18.424E h= 0.0 km
erh= 3.7km erz= 793km
nr= 8 gap=189 rms=0.56
Locality: Gánt
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKSG	4.4	325	PgU	6:50:59.22		0.45	
			Sg		50:59.70		0.32
CSKK	12.3	272	Pg	6:51:00.63		0.43	
			Sg		51:02.09		0.17

Földrengés paraméterek

PKST	31.5	249	Sg	6:51:06.90	-1.11
PSZ	126.8	61	Sg	6:51:38.61	0.31
VYHS	129.8	14	Pg	6:51:20.71	-0.47
			Sg	51:38.20	-1.07

702.

2019-08-08 time: 11:19:38.79 UTC ML= 1.5
lat: 47.858N lon: 19.140E h= 0.0 km
erh= 2.2km erz= 757km
nr= 10 gap=106 rms=0.59
Locality: Nőtincs
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PENC	13.0	125	Pg	11:19:41.22		0.12	
			Sg		19:43.66		0.75
A336	43.0	346	Pg	11:19:46.64		0.16	
			Sg		19:52.62		0.15
PSZ	56.8	83	Pg	11:19:48.92		-0.01	
			Sg		19:55.64		-1.20
VYHS	74.3	342	Pg	11:19:52.87		0.82	
			Sg		20:01.38		-1.02
PKST	106.6	231	Sg	11:20:11.55		-1.13	

703.

2019-08-09 time: 8:17:44.99 UTC ML= 1.3
lat: 46.098N lon: 18.054E h= 0.0 km
erh= 4.0km erz= 725km
nr= 10 gap=257 rms=0.57
Locality: Bakonya
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KOVH	3.7	107	Pg	8:17:45.53		-0.12	
			Sg		17:46.94		0.78
PKSV	27.9	147	Pg	8:17:50.20		0.23	
			Sg		17:54.35		0.50
PKSM	47.1	74	Pg	8:17:52.81		-0.59	
			Sg		17:59.43		-0.53
MORH	47.4	74	Pg	8:17:52.74		-0.72	
			Sg		17:59.60		-0.46
PKB5	76.2	44	Pg	8:17:59.17		0.58	
			Sg		18:10.30		1.09

704.

2019-08-09 time: 8:51:31.77 UTC ML= 1.8
lat: 48.559N lon: 20.767E h= 0.0 km
erh= 3.8km erz= 5.6km
nr= 10 gap= 92 rms=1.69
Locality: Tornanádaska
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	22.4	248	Pg	8:51:35.82		0.05	
			Sg		51:39.43		0.54
ABAH	45.6	130	Sg	8:51:48.97		2.71	
PSZ	96.3	222	Sg	8:52:04.14		1.76	
NIE	101.2	341	Sg	8:52:05.54		1.60	
STHS	101.6	20	ePg	8:51:50.60		0.70	
			eSg		52:01.30		-2.75
KOLS	118.3	69	Sg	8:52:07.55		-1.83	
TRPA	139.8	110	Sn	8:52:12.57		-2.74	
VYHS	142.8	267	Sn	8:52:13.98		-2.00	

Földrengés paraméterek

705.

2019-08-11 time: 23:29:46.78 UTC ML= 4.1
lat: 47.644N lon: 20.330E h= 14.4 km
erh= 1.0km erz= 0.9km
nr= 88 gap= 27 rms=0.69
Locality: Tenk
Comments: felt 4-5 EMS

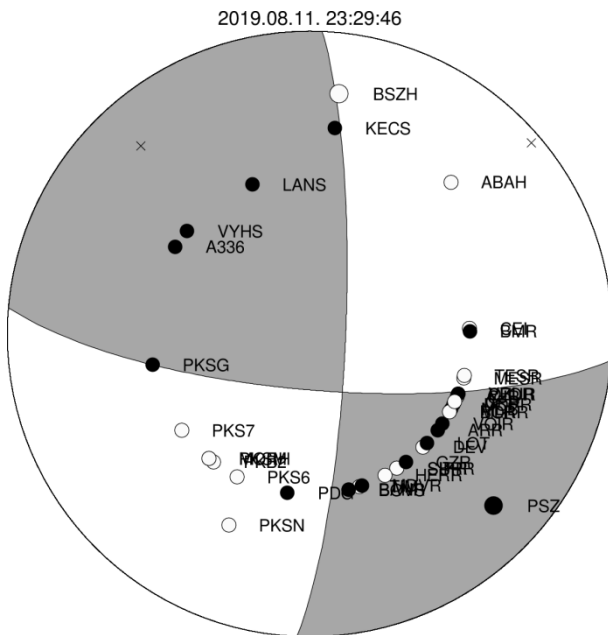
sta	dist	azm	phase	hr mn sec	res
BSZH	38.6	187	PgD	23:29:54.78	0.65
PSZ	44.7	313	PgU	23:29:55.05	-0.12
PENC	80.4	282	Pg	23:30:01.17	-0.19
			Sg	30:11.37	-1.36
PKSN	90.1	203	P*D	23:30:03.32	0.44
KECS	94.0	7	P*U	23:30:03.04	-0.43
			S*	30:15.58	-0.92
ABAH	99.3	43	P*D	23:30:03.98	-0.30
			S*	30:17.35	-0.58
BUD	99.9	260	P*	23:30:03.72	-0.65
			S*	30:16.74	-1.36
PKS7	110.5	233	PnD	23:30:05.73	-0.01
			Sn	30:19.92	-0.61
A336	119.1	303	PnU	23:30:07.29	0.47
			Sn	30:22.31	-0.14
BORR	126.0	119	PnC	23:30:08.02	0.35
PKS6	129.8	207	PnD	23:30:08.13	-0.02
			Sn	30:24.04	-0.78
PKB2	135.8	217	PnD	23:30:08.64	-0.25
VYHS	146.1	310	PnU	23:30:10.75	0.57
			Sn	30:29.32	0.89
PKSG	148.8	259	PnU	23:30:10.79	0.28
			Sn	30:29.03	0.00
SRO	152.5	277	ePn	23:30:13.60	2.62
			eSn	30:32.00	2.15
PKS2	153.6	214	Pn	23:30:11.45	0.33
			Sn	30:29.89	-0.22
A338	153.8	286	Pn	23:30:12.02	0.89
CSKK	159.1	259	Pn	23:30:12.20	0.41
			Sn	30:31.19	-0.12
CEI	159.9	88	PnD	23:30:11.87	-0.03
			Sn	30:30.00	-1.50
PKB3	160.8	212	Pn	23:30:11.61	-0.40
PKB5	168.1	226	Pn	23:30:12.59	-0.33
			Sn	30:36.37	3.06
TRPA	173.8	72	Pn	23:30:12.65	-0.98
LANS	179.3	339	PnU	23:30:15.51	1.19
SIRR	183.4	147	PnD	23:30:14.85	0.02
PKS9	195.1	233	Pn	23:30:16.02	-0.27
			Sn	30:44.45	5.15*
NIE	197.4	360	Pn	23:30:18.37	1.80
A337	201.2	289	Pn	23:30:18.05	1.00
TIH	202.1	246	Pn	23:30:17.92	0.75
KOLS	203.3	45	Pn	23:30:17.50	0.19
			Sn	30:41.83	0.70
DRGR	203.7	118	Pn	23:30:17.19	-0.17
			Sn	30:45.69	4.47*
MORH	204.2	219	PnD	23:30:16.59	-0.83
			Sn	30:39.78	-1.55
PKSM	204.7	219	PnD	23:30:16.62	-0.86
			Sn	30:39.81	-1.63
MESR	205.2	106	PnD	23:30:18.02	0.47
			Sn	30:41.60	0.05
STHS	208.4	19	Pn	23:30:18.44	0.50
TIM	222.7	162	PnD	23:30:21.59	1.86
			Sn	30:45.40	-0.03
EGYH	227.2	264	Pn	23:30:21.46	1.17
			Sn	30:47.44	1.00
SMOL	236.9	294	Pn	23:30:21.89	0.39
BMR	237.9	89	PnC	23:30:21.16	-0.46
			Sn	30:47.90	-0.90
MODS	241.8	290	ePn	23:30:19.40	-2.72
KOVH	242.6	225	Pn	23:30:21.42	-0.79
			Sn	30:48.19	-1.65
BZS	245.9	156	Pn	23:30:22.84	0.21

Hypocenter Parameters

			Sn	30:48.71	-1.88
ZST	249.0	284	Pn	23:30:23.26	0.25
			Sn	30:49.86	-1.41
SURR	250.9	147	PnD	23:30:23.70	0.45
PKSV	251.6	219	Pn	23:30:29.73	6.40*
BANR	258.9	166	PnC	23:30:25.19	0.95
CJR	268.4	113	PnD	23:30:26.20	0.77
DEV	277.4	135	PnD	23:30:27.17	0.62
FRGS	281.7	188	Pn	23:30:26.68	-0.41
			Sn	30:57.16	-1.37
SOP	283.4	271	Pn	23:30:27.66	0.36
			Sn	30:57.70	-1.20
OJC	289.1	352	Pn	23:30:29.19	1.18
			Sn	31:00.34	0.17
OKC	292.1	327	ePn	23:30:29.80	1.42
BEHE	300.0	244	Pn	23:30:30.21	0.84*
RONA	303.0	271	Pn	23:30:30.16	0.41*
			Sn	31:01.12	-2.15*
ARCR	310.2	102	Pn	23:30:30.97	0.33*
			Sn	31:05.26	0.41*
GZR	312.8	143	PnC	23:30:32.15	1.19*
			Sn	31:04.20	-1.22*
MORC	313.6	319	Pn	23:30:31.80	0.73*
			Sn	31:06.32	0.70*
BEO	313.9	178	Pn	23:30:30.97	-0.13*
KRUC	331.6	298	Pn	23:30:33.51	0.20*
			Sn	31:08.54	-1.06*
VRAC	332.6	304	Pn	23:30:33.96	0.53*
			Sn	31:08.41	-1.41*
MDVR	335.6	161	PnC	23:30:34.23	0.43*
CONA	336.4	275	Pn	23:30:34.28	0.38*
			Sn	31:09.69	-0.97*
HERR	346.7	152	PnD	23:30:35.94	0.75*
MDB	350.9	118	PnC	23:30:37.62	1.90*
LOT	359.4	133	PnC	23:30:38.01	1.24*
ARSA	365.2	263	Pn	23:30:38.48	0.98*
			Sn	31:15.67	-1.39*
KRLC	375.4	316	ePn	23:30:40.00	1.23*
GROS	389.8	250	Pn	23:30:40.96	0.40*
TREC	402.5	297	ePn	23:30:42.80	0.65*
			eSn	31:24.90	-0.43*
PERS	411.1	254	Pn	23:30:43.37	0.15*
			Sn	31:28.01	0.76*
SOKA	415.8	255	Pn	23:30:44.00	0.19*
			Sn	31:27.27	-1.03*
ARR	416.1	127	PnC	23:30:44.89	1.05*
DPC	420.3	316	ePn	23:30:45.60	1.24*
BBLs	425.7	190	Pn	23:30:45.31	0.26*
			Sn	31:29.09	-1.41*
DOPR	428.7	116	PnC	23:30:46.47	1.05*
VOIR	437.3	124	PnC	23:30:47.92	1.43*
UPC	448.3	315	ePn	23:30:48.90	1.04*
OZUR	450.2	112	PnC	23:30:49.72	1.63*
MOA	455.4	273	Pn	23:30:49.57	0.83*
			Sn	31:38.15	1.07*
BOVS	458.3	166	PnC	23:30:50.35	1.25*
GOPC	479.3	302	ePn	23:30:52.10	0.37*
			eSn	31:41.20	-1.19*
MLR	492.5	119	PnD	23:30:54.39	1.02*
ZVC	495.3	294	ePn	23:30:54.30	0.58*
TESR	496.1	105	PnD	23:30:55.29	1.47*
PRU	498.7	302	ePn	23:30:54.40	0.25*
			eSn	31:44.50	-2.20*
BIOA	502.7	271	Pn	23:30:55.41	0.77*
			Sn	31:46.80	-0.77*
MYKA	519.8	257	Pn	23:30:57.40	0.62*
			Sn	31:49.80	-1.58*
PLOR	522.4	112	PnC	23:30:58.80	1.70*
KHC	526.8	288	ePn	23:30:58.40	0.76*
VRI	527.2	112	PnC	23:30:58.85	1.15*
PVCC	529.2	307	ePn	23:30:58.40	0.46*
KBA	531.5	263	Pn	23:30:59.00	0.77*
			Sn	31:52.50	-1.47*
PDG	585.6	188	PnC	23:31:05.72	0.74*
ABTA	600.8	260	Pn	23:31:07.33	0.46*

Hypocenter Parameters

WTTA	657.0	266	Pn	23:31:14.44	0.56*
			Sn	32:20.05	-1.78*
CFR	659.8	115	PnD	23:31:14.75	0.52*
WATA	660.6	267	Pn	23:31:14.75	0.42*
SQTA	689.8	266	Pn	23:31:18.51	0.54*
			Sn	32:27.38	-1.73*
MOTA	696.1	267	Pn	23:31:19.15	0.39*
			Sn	32:28.57	-1.93*
RETA	720.3	269	Pn	23:31:22.21	0.44*
FETA	729.0	265	Pn	23:31:23.32	0.46*
DAVA	788.9	267	Pn	23:31:30.75	0.42*



706.

2019-08-12 time: 2:44:25.13 UTC ML= 1.1
lat: 47.696N lon: 20.338E h= 0.3 km
erh= 2.3km erz=92.4km
nr= 9 gap=179 rms=0.31
Locality: Erdőtelek
Comments:

sta	dist	azm	phase	hr	mn	sec	res
PSZ	41.5	307	Pg	2:44:32.99			0.45
			Sg	44:37.97			-0.34
PENC	79.9	278	Pg	2:44:39.36			-0.05
			Sg	44:50.28			-0.27
ABAH	94.8	45	Pg	2:44:41.90			-0.16
			Sg	44:54.73			-0.52

707.

2019-08-12 time: 3:03:38.64 UTC ML= 1.4
lat: 47.671N lon: 20.346E h= 10.0 km
erh= 3.7km erz= 2.4km
nr= 10 gap=188 rms=0.57
Locality: Tenk
Comments:

sta	dist	azm	phase	hr	mn	sec	res
PENC	80.9	279	Pg	3:03:54.01			0.80
			Sg	04:03.62			-0.94
ABAH	96.3	44	Pg	3:03:56.13			0.20
			Sg	04:09.10			-0.32
PKS7	113.2	232	Sn	3:04:13.34			-0.68

Földrengés paraméterek

708.

```

2019-08-12 time: 6:28:02.72 UTC ML= 0.9
lat: 47.292N lon: 18.310E h= 0.0 km
erh= 0.6km erz= 1.9km
nr= 7 gap=167 rms=0.40
Locality: Magyaralmás
Comments: probably explosion

```

sta	dist	azm	phase	hr	mn	sec	res
CSKK	8.8	335	Pg	6:28:04.48			0.19
			Sg	28:05.66			0.15
PKSG	12.7	29	Pg	6:28:04.86			-0.13
			Sg	28:06.84			0.09
MORH	122.3	168	Sg	6:28:41.53			-0.07
PKSM	122.7	168	Sg	6:28:41.78			0.06
VYHS	139.3	16	Sn	6:28:43.11			-3.06

709.

```

2019-08-12 time: 7:22:41.69 UTC ML= 2.0
lat: 47.303N lon: 17.685E h= 0.0 km
           erh= 2.6km      erz= 3.3km
nr= 8      gap=143      rms=1.01
Locality: Bakonykoppány
Comments: probably explosion

```

sta	dist	azm	phase	hr	mn	sec	res
EGYH	29.6	295	Pg	7:22:48.01			1.03
			Sg		22:50.87		-0.23
CSKK	44.0	81	Sg	7:22:55.35			-0.32
TIH	47.5	161	Sg	7:22:57.61			0.82
PKSG	54.2	79	Sg	7:22:59.17			0.25
KOVH	138.7	167	Sn	7:23:24.37			-0.63
MORH	141.3	149	Sn	7:23:24.36			-1.22
CONA	153.7	297	Sn	7:23:24.97			-3.37

710.

```

2019-08-12 time: 9:26:45.86 UTC ML= 1.5
lat: 48.373N lon: 19.860E h= 0.0 km
           erh= 2.5km      erz= 704km
nr= 9      gap=155      rms=0.53
Locality: Slovakia
Comments: probably explosion

```

sta	dist	azm	phase	hr	mn	sec	res
KECS	47.9	75	Pg	9:26:54.97			0.55
			Sg		27:00.34		-0.76
PSZ	50.6	177	Pg	9:26:55.12			0.22
			Sg		27:01.49		-0.46
A336	65.7	256	Pg	9:26:57.93			0.33
			Sg		27:05.75		-1.00
VYHS	76.9	280	Pg	9:27:00.14			0.54
			Sg		27:09.49		-0.82
ABAH	102.7	95	Pg	9:27:03.96			-0.24

711.

2019-08-13 time: 3:14:32.85 UTC ML= 1.0
lat: 47.706N lon: 20.430E h= 5.2 km
 erh= 5.3km erz=13.1km
nr= 9 gap=199 rms=0.64
Locality: Besenyőtelek
Comments:

sta	dist	azm	phase	hr	mn	sec	res
PSZ	46.6	300	Pg	3:14:42.52			1.31
			Sg	14:47.08			-0.66

Földrengés paraméterek

712.

2019-08-13 time: 3:53:01.67 UTC ML= 1.2
lat: 47.656N lon: 20.326E h= 5.4 km
erh= ---km erz= ---km
nr= 4 gap=158 rms=0.05
Locality: Tenk
Comments:

sta	dist	azm	phase	hr	mn	sec	res
PSZ	43.5	312	Sg	3:53:15.60			-0.01

713.

2019-08-13 time: 8:54:00.94 UTC ML= 1.4
lat: 48.604N lon: 20.749E h= 0.0 km
erh= 2.3km erz= 4.0km
nr= 12 gap=112 rms=0.66
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	23.6	235	Pg	8:54:05.52			0.36
			Sg	54:07.33			-1.12
ABAH	49.9	133	Pg	8:54:09.85			0.01
			Sg	54:16.11			-0.68
STHS	97.4	22	ePg	8:54:18.40			0.07
			eSg	54:31.00			-0.89
PSZ	99.2	220	Pg	8:54:19.99			1.34
			Sg	54:32.23			-0.23
LANS	112.0	303	Pg	8:54:21.12			0.19
			Sg	54:35.56			-0.97
VYHS	141.8	265	Pn	8:54:25.95			0.30
			Sn	54:44.00			-0.93

714.

2019-08-13 time: 8:55:24.99 UTC ML= 1.9
lat: 48.239N lon: 21.240E h= 0.0 km
erh= 3.2km erz= 921km
nr= 8 gap=153 rms=0.66
Locality: Tállya
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
ABAH	6.3	359	PgU	8:55:26.05			-0.06
			Sg	55:27.41			0.43
KECS	62.1	296	Pg	8:55:36.55			0.47
			Sg	55:43.90			-0.84
TRPA	97.3	97	Sg	8:55:55.58			-0.34
PSZ	106.5	250	Pg	8:55:44.86			0.86
			Sg	55:57.58			-1.25
KOLS	108.4	45	Sg	8:55:58.74			-0.71

715.

2019-08-13 time: 9:01:40.33 UTC ML= 0.6
lat: 47.200N lon: 18.299E h= 0.0 km
erh= 2.6km erz= 352km
nr= 5 gap=270 rms=0.16
Locality: Székesfehérvár
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	18.4	351	Sg	9:01:46.40			0.23
PKST	21.1	288	Pg	9:01:44.03			-0.07
			Sg	01:47.01			-0.03
PKSG	22.4	18	Pg	9:01:44.44			0.11
			Sg	01:47.12			-0.34

Hypocenter Parameters

716.

2019-08-13 time: 10:58:05.13 UTC ML= 1.6
lat: 47.109N lon: 17.990E h= 0.0 km
erh= 3.4km erz= 945km
nr= 13 gap=174 rms=0.80
Locality: Litér
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKST	17.0	11	Pg	10:58:07.89			-0.28
			Sg	58:10.23			-0.31
TIH	24.4	198	Pg	10:58:10.21			0.73
			Sg	58:14.12			1.24
CSKK	34.9	36	Sg	10:58:16.06			-0.17
PKSG	43.7	44	Pg	10:58:12.45			-0.49
			Sg	58:20.08			1.06
PKB5	80.6	135	Sg	10:58:32.15			1.39
MORH	111.2	153	Pg	10:58:25.26			0.27
			Sg	58:39.00			-1.48
PKSM	111.5	153	Pg	10:58:25.10			0.06
			Sg	58:39.15			-1.42
KOVH	113.8	176	Sg	10:58:40.08			-1.21

717.

2019-08-13 time: 12:49:43.24 UTC ML= 2.3
lat: 47.663N lon: 20.342E h= 11.2 km
erh= 1.2km erz= 1.1km
nr= 16 gap=111 rms=0.37
Locality: Tenk
Comments:

sta	dist	azm	phase	hr	mn	sec	res
BSZH	40.8	188	Pg	12:49:51.29			0.49
			Sg	49:55.29			-1.40
PSZ	43.9	310	Pg	12:49:51.95			0.61
			Sg	49:57.60			-0.05
PENC	80.8	280	Pg	12:49:58.15			0.34
			Sg	50:08.82			-0.35
KECS	91.8	7	Sg	12:50:12.54			-0.10
ABAH	97.2	44	Pg	12:50:00.75			0.04
			Sg	50:13.79			-0.54
PKS7	112.5	233	Pn	12:50:03.05			0.18
			Sn	50:17.41			-0.77

718.

2019-08-14 time: 7:17:28.75 UTC ML= 1.6
lat: 47.626N lon: 20.347E h= 10.0 km
erh= 3.7km erz= 2.4km
nr= 8 gap=139 rms=0.42
Locality: Tenk
Comments:

sta	dist	azm	phase	hr	mn	sec	res
BSZH	36.8	189	Pg	7:17:35.05			-0.50

719.

2019-08-14 time: 9:47:36.27 UTC ML= 1.3
lat: 47.643N lon: 20.316E h= 11.4 km
erh= 2.0km erz= 3.0km
nr= 7 gap=124 rms=0.22
Locality: Tenk
Comments:

sta	dist	azm	phase	hr	mn	sec	res
PSZ	44.1	314	Sg	9:47:50.73			0.00

Hypocenter Parameters

720.

2019-08-14 time: 10:04:05.24 UTC ML= 0.9
lat: 47.267N lon: 18.261E h= 0.0 km
erh= 7.9km erz= ***km
nr= 6 gap=232 rms=0.72
Locality: Kincsesbánya
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	10.7	360	Pg	10:04:05.92	-1.23
			Sg	04:08.27	-0.37
PKSG	17.0	35	Pg	10:04:08.95	0.68
			Sg	04:11.34	0.70
PKST	17.2	267	Pg	10:04:08.33	0.02
			Sg	04:11.25	0.54

721.

2019-08-14 time: 10:27:44.25 UTC ML= 1.5
lat: 48.884N lon: 20.505E h= 0.0 km
erh= 2.4km erz= 751km
nr= 10 gap=101 rms=0.58
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	44.7	182	Pg	10:27:52.30	0.08
			Sg	27:57.86	-0.58
NIE	61.0	347	Sg	10:28:02.90	-0.75
ABAH	85.0	140	Pg	10:28:00.12	0.70
			Sg	28:10.58	-0.68
PSZ	116.6	203	Pg	10:28:05.30	0.24
			Sg	28:19.75	-1.55
KOLS	129.7	88	ePg	10:28:07.60	0.18
			eSg	28:24.70	-0.79
VYHS	130.3	251	Pg	10:28:08.01	0.49

722.

2019-08-14 time: 10:40:02.76 UTC ML= 1.2
lat: 48.756N lon: 20.402E h= 0.0 km
erh= 7.1km erz= ***km
nr= 8 gap=234 rms=1.05
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	31.0	168	Sg	10:40:13.45	0.85
ABAH	80.3	130	Pg	10:40:16.73	-0.37
			Sg	40:26.89	-1.39
PSZ	100.5	202	Pg	10:40:21.43	0.74
			Sg	40:34.81	0.12
A336	118.9	241	Sg	10:40:39.70	-0.84
VYHS	119.0	256	Pg	10:40:25.07	1.06
			Sg	40:37.38	-3.21

723.

2019-08-15 time: 8:57:19.34 UTC ML= 1.0
lat: 46.174N lon: 18.293E h= 6.7 km
erh= 1.0km erz= 3.7km
nr= 8 gap=156 rms=0.14
Locality: Zobákpusztá
Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	17.7	237	Pg	8:57:22.56	-0.16
			Sg	57:25.51	0.15
PKSM	27.2	81	Pg	8:57:24.45	0.10
			Sg	57:28.22	-0.03
MORH	27.5	80	Pg	8:57:24.48	0.08
PKSV	31.9	186	Pg	8:57:25.27	0.11
			Sg	57:29.56	-0.14

Földrengés paraméterek

PKB4 43.1 34 Sg 8:57:32.82 -0.38

724.

2019-08-15 time: 9:02:26.77 UTC ML= 0.7
lat: 47.229N lon: 18.270E h= 0.6 km
erh= 1.7km erz=63.0km
nr= 7 gap=139 rms=0.14
Locality: Iszkaszentgyörgy
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	14.9	357	Pg	9:02:29.50	0.06
			Sg	02:31.66	0.15
PKST	18.1	280	Pg	9:02:30.05	0.04
			Sg	02:32.24	-0.30
PKSG	20.3	27	Pg	9:02:30.43	0.04
			Sg	02:32.86	-0.35
PKSM	116.6	166	Pg	9:02:47.63	0.03

725.

2019-08-15 time: 9:05:16.19 UTC ML= 2.1
lat: 48.528N lon: 20.771E h= 6.8 km
erh= 3.4km erz= 2.4km
nr= 7 gap=218 rms=0.36
Locality: Tornaszentandrás
Comments:

sta	dist	azm	phase	hr mn sec	res
KECS	21.6	257	Pg	9:05:19.99	-0.25
			Sg	05:23.66	0.26
ABAH	43.2	127	Pg	9:05:23.76	-0.25
			Sg	05:30.04	-0.07
PSZ	94.0	224	Sg	9:05:46.44	0.30
VYHS	143.0	268	Pn	9:05:40.84	0.65
			Sn	05:58.37	-0.54

726.

2019-08-15 time: 10:39:53.49 UTC ML= 1.3
lat: 47.518N lon: 18.561E h= 10.0 km
erh= 5.5km erz= 3.4km
nr= 10 gap=167 rms=0.49
Locality: Nagyegyháza
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSG	19.0	222	Pg	10:39:57.41	0.08
			Sg	39:59.87	-0.45
CSKK	28.5	233	Pg	10:39:58.71	-0.17
			Sg	40:03.98	0.90
PKST	49.1	234	Pg	10:40:02.24	-0.20
			Sg	40:08.90	-0.52
VYHS	110.4	11	Pn	10:40:13.60	0.59
			Sn	40:26.53	-1.71
MORH	144.9	177	Sn	10:40:36.03	0.13
PKSM	145.4	178	Sn	10:40:36.18	0.19

727.

2019-08-16 time: 6:11:10.45 UTC ML= 1.5
lat: 47.872N lon: 19.387E h= 0.0 km
erh= 3.1km erz= 858km
nr= 6 gap=139 rms=0.51
Locality: Bercel
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	12.0	221	Pg	6:11:12.46	-0.14
			Sg	11:14.61	0.34
PSZ	38.3	82	Pg	6:11:17.15	-0.14
			Sg	11:22.34	-0.28
A336	49.5	324	Pg	6:11:20.02	0.73

Földrengés paraméterek

				Sg	11:25.06	-1.12
728.						
2019-08-16 time: 6:58:09.51 UTC ML= 1.5						
lat: 46.025N		lon: 22.818E		h= 3.0 km		
		erh= 1.4km		erz= 1.8km		
nr= 22		gap= 68		rms=0.64		
Locality: Romania						
Comments:						
sta	dist	azm	phase	hr mn sec	res	
DEV	17.1	157	PgC	6:58:12.82	0.21	
			Sg	58:15.70	0.68	
SURR	61.7	241	PgD	6:58:20.91	0.37	
			Sg	58:28.60	-0.54	
GZR	70.3	183	PgC	6:58:22.22	0.15	
			Sg	58:31.60	-0.27	
DRGR	85.6	354	Pg	6:58:25.33	0.51	
			Sg	58:35.10	-1.65	
SIRR	93.5	287	PgC	6:58:27.02	0.80	
			Sg	58:38.60	-0.64	
CJR	97.3	38	Sg	6:58:39.90	-0.54	
LOT	98.0	131	PgC	6:58:26.81	-0.20	
			Sg	58:40.00	-0.66	
BZS	103.8	244	Pg	6:58:27.90	-0.16	
			Sg	58:41.26	-1.27	
HERR	131.0	194	PnC	6:58:32.40	-0.09	
			Sn	58:49.10	-1.32	
MDVR	163.0	212	PnC	6:58:37.29	0.79	
			Sn	58:58.50	0.96	
ARCR	166.6	45	Sn	6:58:59.25	0.91	
VOIR	185.6	111	PnD	6:58:39.96	0.66	
			Sn	59:02.20	-0.34	
729.						
2019-08-16 time: 7:29:56.47 UTC ML= 1.5						
lat: 47.852N		lon: 19.118E		h= 0.0 km		
		erh= 2.2km		erz= 298km		
nr= 6		gap=229		rms=0.17		
Locality: Szendehely						
Comments: probably explosion						
sta	dist	azm	phase	hr mn sec	res	
PENC	14.0	119	Pg	7:29:58.95	-0.03	
			Sg	30:00.87	-0.07	
A336	43.3	348	Pg	7:30:04.09	-0.12	
			Sg	30:10.34	0.09	
PSZ	58.6	83	Pg	7:30:07.22	0.29	
			Sg	30:14.82	-0.27	
730.						
2019-08-16 time: 8:21:14.34 UTC ML= 1.6						
lat: 47.008N		lon: 22.326E		h= 0.0 km		
		erh= 2.1km		erz= 2.6km		
nr= 16		gap=155		rms=0.71		
Locality: Romania						
Comments: probably explosion						
sta	dist	azm	phase	hr mn sec	res	
DRGR	37.9	129	Pg	8:21:21.42	0.32	
			Sg	21:26.47	0.09	
MESR	49.9	72	Sg	8:21:30.60	0.41	
			PgC	8:21:27.03	0.05	
MARR	70.8	121	Sg	21:36.20	-0.64	
			Sg	8:21:39.60	1.12	
CEI	76.0	8	Sg	8:21:31.76	0.13	
SIRR	96.8	212	PgC	21:43.80	-1.31	
			Sg	8:21:46.40	-0.47	
CJR	102.4	109	Sg	8:21:36.42	-0.39	
TRPA	125.8	7	Pg	21:52.30	-2.04	
			Pn	8:21:42.38	0.56	
BZS	164.0	199	Sn	22:01.94	-1.31	

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GZR	182.8	169	PnC	8:21:44.95	0.79
			Sn	22:07.20	-0.22
LOT	206.1	147	Sn	8:22:13.40	0.81
731.					
2019-08-16 time: 8:29:50.19 UTC ML= 2.7					
lat: 48.221N lon: 21.251E h= 0.0 km					
erh= 1.3km erz= 2.1km					
nr= 10 gap=106 rms=0.32					
Locality: Tállya					
Comments: probably explosion					
sta	dist	azm	phase	hr mn sec	res
ABAH	8.4	354	Pg	8:29:52.01	0.32
			Sg	29:53.12	0.26
KECS	63.8	297	Pg	8:30:01.73	0.15
			Sg	30:09.89	-0.57
TRPA	96.4	96	Sg	8:30:21.03	0.21
PSZ	106.5	252	Sg	8:30:24.35	0.30
KOLS	109.4	44	Pg	8:30:09.29	-0.44
			Sg	30:24.76	-0.20
A336	167.3	270	Sn	8:30:39.87	0.03
DRGR	193.3	145	Sn	8:30:45.21	-0.40
732.					
2019-08-16 time: 8:41:52.97 UTC ML= 1.3					
lat: 46.084N lon: 18.083E h= 0.0 km					
erh= 2.8km erz= 600km					
nr= 11 gap=226 rms=0.50					
Locality: Kővágótőttős					
Comments: probably explosion					
sta	dist	azm	phase	hr mn sec	res
KOVH	1.4	69	PgU	8:41:53.32	0.11
			Sg	41:54.42	1.01
PKSV	25.4	149	Pg	8:41:57.79	0.29
			Sg	42:01.76	0.73
PKSM	45.4	72	Pg	8:42:00.65	-0.43
			Sg	42:06.39	-1.01
MORH	45.8	71	Pg	8:42:00.68	-0.46
			Sg	42:06.77	-0.74
PKS9	57.9	15	Pg	8:42:03.30	-0.01
PKB5	75.8	41	Pg	8:42:06.70	0.19
			Sg	42:17.71	0.63
733.					
2019-08-16 time: 10:00:58.58 UTC ML= 1.4					
lat: 47.565N lon: 16.354E h= 0.0 km					
erh= 1.4km erz= 3.0km					
nr= 10 gap=134 rms=0.41					
Locality: Austria					
Comments: probably explosion					
sta	dist	azm	phase	hr mn sec	res
RONA	15.6	344	Pg	10:01:01.26	-0.10
			Sg	01:03.39	-0.14
SOP	20.2	49	Pg	10:01:02.32	0.14
			Sg	01:05.06	0.06
CONA	54.7	318	Pg	10:01:08.42	0.07
			Sg	01:15.63	-0.35
ARSA	71.8	241	Pg	10:01:12.29	0.89
			Sg	01:20.90	-0.51
KOGS	124.4	184	Sg	10:01:37.86	-0.27
GROS	138.8	208	Sn	10:01:41.21	-0.70

Hypocenter Parameters

Földrengés paraméterek

734.

2019-08-16 time: 22:11:33.55 UTC ML= 1.0
lat: 47.636N lon: 20.353E h= 10.0 km
erh= 2.2km erz= 1.9km
nr= 12 gap=131 rms=0.45
Locality: Tenk
Comments:

sta	dist	azm	phase	hr mn	sec	res
BSZH	38.0	190	Sg	22:11:45.69		-0.35
PSZ	46.5	312	Pg	22:11:42.40		0.35
			Sg	11:47.86		-0.82
ABAH	98.8	42	Sg	22:12:03.22		-1.90

735.

2019-08-17 time: 18:00:45.09 UTC ML= 1.4
lat: 47.636N lon: 20.324E h= 8.9 km
erh= 1.9km erz= 1.9km
nr= 13 gap= 93 rms=0.46
Locality: Tenk
Comments:

sta	dist	azm	phase	hr mn	sec	res
BSZH	37.7	187	Pg	18:00:51.68		-0.32
PSZ	45.0	314	Pg	18:00:53.51		0.24
			Sg	00:58.98		-0.68
PENC	80.1	282	Sg	18:01:10.20		-0.50
KECS	94.9	7	Sg	18:01:14.68		-0.71
ABAH	100.3	43	Pg	18:01:03.12		0.06
			Sg	01:16.32		-0.76

736.

2019-08-17 time: 21:54:30.36 UTC ML= 1.0
lat: 47.639N lon: 20.291E h= 1.7 km
erh= 0.6km erz= 2.0km
nr= 6 gap=197 rms=0.14
Locality: Heves
Comments:

sta	dist	azm	phase	hr mn	sec	res
PSZ	43.0	316	Pg	21:54:38.07		0.03
			Sg	54:43.85		-0.18

737.

2019-08-18 time: 3:06:54.36 UTC ML= 1.0
lat: 47.674N lon: 20.336E h= 5.4 km
erh= 1.4km erz= 2.0km
nr= 7 gap=142 rms=0.18
Locality: Tenk
Comments:

sta	dist	azm	phase	hr mn	sec	res
PSZ	42.8	309	Sg	3:07:07.89		-0.18

738.

2019-08-18 time: 20:27:11.10 UTC ML=-0.1
lat: 47.313N lon: 18.310E h= 8.5 km
erh= 5.2km erz= 4.6km
nr= 6 gap=219 rms=0.12
Locality: Söréd
Comments:

sta	dist	azm	phase	hr mn	sec	res
CSKK	6.7	326	Pg	20:27:13.05		0.01
			Sg	27:14.33		-0.22
PKSG	10.6	35	Pg	20:27:13.58		0.04
			Sg	27:15.51		0.07
PKST	21.7	254	Pg	20:27:15.18		-0.09
			Sg	27:18.77		0.25

739.

2019-08-19 time: 0:49:32.25 UTC ML= 1.2
lat: 47.585N lon: 20.288E h= 3.8 km
erh= 3.9km erz= 5.7km
nr= 6 gap=207 rms=0.28
Locality: Heves
Comments:

sta	dist	azm	phase	hr mn	sec	res
BSZH	31.8	183	Pg	0:49:38.00		0.03
			Sg	49:42.18		-0.24

740.

2019-08-19 time: 7:49:24.65 UTC ML= 1.3
lat: 48.699N lon: 18.665E h= 0.0 km
erh= 9.5km erz= 7.7km
nr= 9 gap=168 rms=0.94
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn	sec	res
VYHS	26.0	151	Pg	7:49:30.17		0.87
			Sg	49:33.99		1.07
A336	57.4	154	Sg	7:49:42.02		-0.86
PENC	110.9	156	Sg	7:49:59.20		-0.70
PSZ	125.9	134	Pg	7:49:48.05		0.92
			Sg	50:02.91		-1.76
MORC	145.1	326	Pn	7:49:50.05		0.27
			Sn	50:08.48		-0.90
PKSG	146.7	188	Sn	7:50:08.53		-1.21

741.

2019-08-19 time: 20:32:31.73 UTC ML= 1.0
lat: 47.610N lon: 20.289E h= 5.3 km
erh= 4.3km erz=10.2km
nr= 5 gap=137 rms=0.19
Locality: Heves
Comments:

sta	dist	azm	phase	hr mn	sec	res
BSZH	34.5	183	Sg	20:32:42.72		-0.11
PSZ	45.3	319	Sg	20:32:46.17		-0.05

742.

2019-08-20 time: 9:44:23.73 UTC ML= 1.7
lat: 45.636N lon: 18.111E h= 8.3 km
erh= 4.4km erz= 5.0km
nr= 12 gap=246 rms=0.49
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn	sec	res
PKSV	30.2	21	Pg	9:44:29.50		0.18
			Sg	44:33.09		-0.58
KOVH	50.3	359	Pg	9:44:33.21		0.37
			Sg	44:39.19		-0.75
PKSM	76.1	33	Pg	9:44:36.96		-0.44
			Sg	44:48.96		0.90
MORH	76.6	33	Pg	9:44:37.02		-0.47
			Sg	44:49.06		0.84
PKB4	103.0	22	Sg	9:44:56.39		-0.18
PKS9	106.5	7	Pg	9:44:43.27		0.46
			Sg	44:57.70		0.01
FRGS	144.2	113	Sn	9:45:05.99		-0.38

Földrengés paraméterek

743.

2019-08-21 time: 0:45:44.92 UTC ML= 1.2
lat: 47.635N lon: 20.284E h= 1.7 km
erh= 0.3km erz= 1.2km
nr= 5 gap=204 rms=0.16
Locality: Heves
Comments:

sta	dist	azm	phase	hr mn sec	res
PSZ	43.0	317	Sg	0:45:58.42	-0.16

744.

2019-08-21 time: 2:19:07.63 UTC ML= 1.1
lat: 47.629N lon: 20.296E h= 0.2 km
erh= 0.5km erz=14.1km
nr= 5 gap=206 rms=0.11
Locality: Heves
Comments:

sta	dist	azm	phase	hr mn sec	res
PSZ	44.0	317	Sg	2:19:21.54	-0.09

745.

2019-08-21 time: 4:52:39.50 UTC ML= 1.5
lat: 48.514N lon: 17.638E h= 1.2 km
erh= 6.5km erz= 4.8km
nr= 14 gap=208 rms=1.23
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr mn sec	res
MODS	30.9	240	ePg	4:52:42.60	-2.42
			eSg	52:46.90	-2.42
ZST	53.1	228	Pg	4:52:49.87	0.88
			Sg	52:56.68	0.29
A338	76.8	136	Sg	4:53:04.74	0.84
VYHS	88.6	91	Pg	4:52:55.69	0.37
			Sg	53:06.55	-1.11
A336	105.6	107	Pg	4:52:58.28	-0.07
			Sg	53:11.77	-1.29
RONA	134.8	228	Pn	4:53:04.95	1.76
			Sn	53:21.01	-0.67
PKST	142.7	168	Sn	4:53:22.69	-0.72
CONA	147.2	244	Pn	4:53:06.99	2.26
			Sn	53:24.03	-0.38

746.

2019-08-21 time: 8:21:42.78 UTC ML= 1.8
lat: 47.850N lon: 19.141E h= 0.0 km
erh= 1.8km erz= 576km
nr= 8 gap=145 rms=0.41
Locality: Szendehely
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	12.4	122	Pg	8:21:45.36	0.36
			Sg	21:46.56	-0.17
A336	43.9	346	Sg	8:21:56.68	-0.06
PSZ	56.9	82	Sg	8:22:00.22	-0.64
VYHS	75.1	342	ePg	8:21:56.80	0.60
			eSg	22:06.60	-0.07

747.

2019-08-21 time: 8:31:43.79 UTC ML= 1.5
lat: 47.114N lon: 17.992E h= 0.0 km
erh= 4.1km erz= 996km
nr= 10 gap=174 rms=0.79
Locality: Litér
Comments: probably explosion

Hypocenter Parameters

sta	dist	azm	phase	hr mn sec	res
PKST	16.4	11	Pg	8:31:46.46	-0.27
			Sg	31:49.28	0.27
TIH	25.0	198	Sg	8:31:52.97	1.25
CSKK	34.4	36	Sg	8:31:55.00	0.29
PKSG	43.2	44	Pg	8:31:51.59	0.09
			Sg	31:57.46	-0.05
PKB4	83.0	146	Sg	8:32:12.52	2.34
MORH	111.6	153	Sg	8:32:18.10	-1.17
PKSM	111.9	154	Sg	8:32:18.35	-1.01
KOVH	114.3	176	Sg	8:32:19.52	-0.61

748.

2019-08-21 time: 10:33:37.36 UTC ML= 1.6
lat: 48.472N lon: 19.549E h= 0.0 km
erh= 2.5km erz= 605km
nr= 8 gap=176 rms=0.43
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
A336	48.7	237	Pg	10:33:46.37	0.32
			Sg	33:52.72	-0.10
VYHS	52.7	273	Pg	10:33:46.88	0.11
			Sg	33:53.37	-0.75
PSZ	66.8	157	Pg	10:33:49.49	0.21
			Sg	33:58.01	-0.57
KECS	69.3	89	Pg	10:33:50.10	0.37
			Sg	33:58.36	-1.02

749.

2019-08-21 time: 13:39:41.59 UTC ML= 2.2
lat: 47.498N lon: 19.827E h= 10.0 km
erh= 1.0km erz= 1.0km
nr= 40 gap= 54 rms=0.62
Locality: Jászfelsőszentgyörgy
Comments:

sta	dist	azm	phase	hr mn sec	res
BSZH	39.9	123	PgU	13:39:48.46	-0.47
			Sg	39:54.67	0.02
PSZ	47.1	6	Pg	13:39:50.38	0.20
			Sg	39:56.97	0.09
PENC	52.3	308	Pg	13:39:51.32	0.22
			Sg	39:58.00	-0.53
BUD	60.5	269	Sg	13:40:01.38	0.29
PKSN	66.8	177	Pg	13:39:54.14	0.49
			Sg	40:02.15	-0.91
PKS7	71.0	225	Pg	13:39:54.12	-0.28
			Sg	40:03.72	-0.67
PKB2	101.7	206	Pg	13:39:59.63	-0.21
			Sg	40:12.32	-1.76
PKS6	101.8	191	Pg	13:40:00.83	0.98
			Sg	40:12.15	-1.94
A336	102.6	323	Pg	13:40:00.04	0.04
			Sg	40:12.98	-1.38
PKSG	109.0	264	Pn	13:40:01.05	0.12
			Sn	40:15.18	-0.84
KECS	120.1	24	Pn	13:40:02.18	-0.14
			Sn	40:17.40	-1.10
PKS2	121.1	203	Sn	13:40:18.06	-0.66
PKB3	128.7	202	Sn	13:40:19.65	-0.75
PKB5	130.2	220	Pn	13:40:03.34	-0.23
			Sn	40:20.21	-0.51
VYHS	133.2	326	Pn	13:40:04.43	0.48
			Sn	40:21.21	-0.19
PKST	137.9	259	Pn	13:40:06.01	1.47
			Sn	40:21.60	-0.85
ABAH	138.0	50	Pn	13:40:04.86	0.31
			Sn	40:22.25	-0.21
PKB4	145.1	220	Pn	13:40:06.30	0.87
			Sn	40:24.93	0.90

Hypocenter Parameters

PKS9 155.2 229 Sn 13:40:27.80 1.52
MORH 168.6 212 Sn 13:40:29.84 0.58
PKSM 169.1 212 Sn 13:40:30.21 0.84

750.

2019-08-21 time: 20:16:21.81 UTC ML= 1.0
lat: 47.632N lon: 20.309E h= 2.0 km
erh= 4.8km erz=12.5km
nr= 6 gap=197 rms=0.30
Locality: Heves
Comments:

sta	dist	azm	phase	hr mn sec	res
PSZ	44.5	316	Pg	20:16:30.20	0.43
			Sg	16:35.28	-0.69

751.

2019-08-22 time: 7:38:42.18 UTC ML= 0.7
lat: 47.319N lon: 18.420E h= 0.0 km
erh= 2.6km erz= 590km
nr= 7 gap=187 rms=0.39
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	8.4	345	Pg	7:38:43.65	-0.04
			Sg	38:44.30	-0.57
CSKK	13.0	292	Pg	7:38:44.80	0.29
			Sg	38:45.98	-0.34
PKST	29.9	257	Pg	7:38:48.09	0.57
			Sg	38:51.20	-0.48
PKSM	124.2	172	Sg	7:39:21.38	-0.28

752.

2019-08-22 time: 9:39:29.26 UTC ML= 0.8
lat: 47.194N lon: 18.275E h= 0.0 km
erh= 2.7km erz= 354km
nr= 6 gap=270 rms=0.21
Locality: Csór
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	18.9	357	Pg	9:39:32.98	0.35
			Sg	39:35.17	-0.08
PKST	19.6	292	Pg	9:39:32.76	-0.01
			Sg	39:35.32	-0.18
PKSG	23.7	22	Pg	9:39:33.26	-0.23
			Sg	39:36.87	0.08

753.

2019-08-23 time: 9:25:53.15 UTC ML= 2.5
lat: 48.213N lon: 21.274E h= 0.0 km
erh= 4.7km erz= 814km
nr= 5 gap=210 rms=0.38
Locality: Mád
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	9.6	345	PgU	9:25:55.17	0.30
			Sg	25:56.54	0.34
KECS	65.7	297	Sg	9:26:13.62	-0.42
PSZ	107.9	252	Sg	9:26:27.47	0.02
KOLS	108.9	43	eSg	9:26:27.10	-0.66

Földrengés paraméterek

754.

2019-08-23 time: 10:26:34.71 UTC ML= 1.5
lat: 45.920N lon: 17.655E h= 10.0 km
erh= 3.2km erz= 5.1km
nr= 9 gap=171 rms=0.36
Locality: Potony
Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	39.2	61	Pg	10:26:42.34	0.40
			Sg	26:48.34	0.77
PKSV	46.5	94	Pg	10:26:43.37	0.17
			Sg	26:49.75	-0.07
PKSM	82.9	67	Pg	10:26:49.44	-0.19
			Sg	27:00.78	-0.48
MORH	83.3	67	Pg	10:26:49.49	-0.20
			Sg	27:00.60	-0.78
ZAG	129.4	266	Pn	10:26:56.71	0.11

755.

2019-08-24 time: 4:36:00.98 UTC ML= 1.8
lat: 46.750N lon: 21.255E h= 13.9 km
erh= 2.3km erz= 2.4km
nr= 24 gap= 49 rms=0.80
Locality: Doboz
Comments:

sta	dist	azm	phase	hr mn sec	res
SIRR	62.0	150	PgC	4:36:12.00	-0.32
			Sg	36:20.20	-0.96
PKSN	107.2	279	Sn	4:36:31.38	-2.75
DRGR	111.3	88	Pn	4:36:20.03	-0.09
			Sn	36:34.09	-0.95
BZS	129.0	168	Pn	4:36:22.44	0.11
			Sn	36:37.98	-1.00
SURR	129.4	149	PnC	4:36:22.66	0.28
			Sn	36:38.70	-0.36
PKS6	130.5	263	Sn	4:36:37.91	-1.39
MESR	136.4	71	PnD	4:36:23.48	0.23
			Sn	36:40.60	-0.01
MARR	142.7	93	PnC	4:36:24.67	0.64
			Sn	36:42.60	0.58
PSZ	165.7	322	Pn	4:36:27.54	0.64
			Sn	36:45.14	-1.98
ABAH	171.9	360	Sn	4:36:48.35	-0.14
TRPA	181.5	32	Pn	4:36:29.69	0.82
GZR	191.3	142	PnC	4:36:30.53	0.44
MORH	209.1	254	PnD	4:36:32.61	0.30
PKSM	209.5	253	Sn	4:36:58.59	1.76
FRGS	211.6	212	Pn	4:36:33.43	0.81
			Sn	36:58.51	1.21
PKSG	229.0	288	Sn	4:37:03.71	2.54

756.

2019-08-24 time: 8:55:55.27 UTC ML= 1.4
lat: 48.035N lon: 19.644E h= 0.0 km
erh= 1.2km erz= 445km
nr= 13 gap=101 rms=0.37
Locality: Lucfalva
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	22.7	125	PgU	8:55:59.85	0.53
			Sg	56:01.84	-0.64
PENC	38.4	225	Pg	8:56:02.19	0.07
			Sg	56:08.11	0.65
A336	52.9	295	Pg	8:56:04.40	-0.31
			Sg	56:11.83	-0.25
VYHS	78.8	310	Pg	8:56:09.81	0.47
			Sg	56:19.36	-0.96
KECS	80.0	51	ePg	8:56:09.40	-0.15

Földrengés paraméterek

757.

2019-08-26 time: 8:17:18.61 UTC ML= 1.2
lat: 47.336N lon: 18.444E h= 0.0 km
erh= 2.1km erz= 892km
nr= 12 gap=106 rms=0.73
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	14.2	282	Pg	8:17:21.06	-0.09
			Sg	17:22.71	-0.41
PKST	32.1	255	Pg	8:17:23.87	-0.48
			Sg	17:29.15	0.33
EGYH	84.5	276	Sg	8:17:46.10	0.64
PKB5	85.3	165	Sg	8:17:47.13	1.41
A336	108.1	23	Pg	8:17:38.92	1.00
			Sg	17:51.82	-1.16
MORH	125.4	173	Sg	8:17:57.65	-0.83
PKSM	125.8	173	Sg	8:17:57.65	-0.96
PSZ	126.8	59	Pg	8:17:41.67	0.41
			Sg	17:58.20	-0.73

758.

2019-08-26 time: 9:14:06.25 UTC ML= 1.7
lat: 48.637N lon: 20.851E h= 0.0 km
erh= 5.0km erz= 3.5km
nr= 7 gap=239 rms=0.54
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	32.0	238	Pg	9:14:12.17	0.21
			Sg	14:15.73	-0.68
ABAH	47.5	143	Sg	9:14:21.09	-0.27
			Pg	9:14:26.02	0.68
PSZ	106.9	222	Sg	14:40.33	0.09
			Sn	9:14:49.50	-1.29
VYHS	149.6	264	Sn	9:14:51.78	-0.20

759.

2019-08-26 time: 9:14:43.74 UTC ML= 1.7
lat: 48.585N lon: 20.785E h= 0.0 km
erh= 1.1km erz= 1.5km
nr= 8 gap=228 rms=0.22
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.9	243	Pg	9:14:48.30	0.12
			Sg	14:51.78	0.14
ABAH	46.5	134	Pg	9:14:52.21	0.17
			Sg	14:58.25	-0.27
PSZ	99.4	222	Pg	9:15:01.63	0.15
			Sg	15:15.03	-0.29
VYHS	144.3	266	Pn	9:15:08.52	-0.25
			Sn	15:26.25	-2.04*

760.

2019-08-26 time: 21:09:16.53 UTC ML= 0.8
lat: 45.958N lon: 17.911E h= 5.0 km
erh= 6.8km erz=13.6km
nr= 7 gap=338 rms=0.38
Locality: Sumony
Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	20.6	45	Pg	21:09:19.78	-0.53
			Sg	09:23.70	0.44
PKSM	63.1	64	Pg	21:09:28.06	0.22
			Sg	09:36.29	-0.38

Hypocenter Parameters

MORH 63.5 63 Pg 21:09:28.15 0.24
Sg 09:36.40 -0.39
PKB4 80.2 42 Sg 21:09:42.49 0.41

761.

2019-08-26 time: 21:24:18.10 UTC ML= 1.2
lat: 45.931N lon: 17.915E h= 11.3 km
erh= 1.8km erz= 0.8km
nr= 11 gap=320 rms=0.19
Locality: Okorág
Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	22.6	39	Pg	21:24:22.53	-0.09
			Sg	24:26.51	0.36
PKSM	64.3	61	Pg	21:24:29.70	-0.06
			Sg	24:38.93	0.07
MORH	64.7	61	Pg	21:24:29.69	-0.15
			Sg	24:38.95	-0.04
PKS9	78.2	21	Sg	21:24:43.18	-0.03
PKB4	82.3	40	Pg	21:24:33.20	0.25
			Sg	24:43.35	-1.17
PKB5	97.2	41	S*	21:24:49.00	-0.22
PKS2	118.0	58	Sn	21:24:54.33	0.09

762.

2019-08-26 time: 21:55:52.02 UTC ML= 0.8
lat: 47.639N lon: 20.310E h= 2.4 km
erh= 7.7km erz=15.1km
nr= 6 gap=186 rms=0.51
Locality: Tenk
Comments:

sta	dist	azm	phase	hr mn sec	res
PSZ	44.0	315	Pg	21:56:00.74	0.86
			Sg	56:05.14	-0.87

763.

2019-08-27 time: 8:09:37.82 UTC ML= 1.6
lat: 47.843N lon: 19.874E h= 0.0 km
erh= 5.1km erz= ***km
nr= 9 gap=199 rms=0.86
Locality: Gyöngyösoroszi
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	8.5	10	Pg	8:09:39.78	0.45
			Sg	09:41.60	1.09
PENC	44.8	262	Pg	8:09:45.99	0.17
			Sg	09:52.27	0.22
A336	78.3	304	Sg	8:10:01.97	-0.75
KECS	84.4	33	Sg	8:10:04.99	0.33
VYHS	105.8	313	Pg	8:09:57.10	0.38
			Sg	10:09.42	-2.03
ABAH	113.5	64	Sg	8:10:11.89	-2.02

764.

2019-08-27 time: 9:13:08.66 UTC ML= 1.5
lat: 48.588N lon: 20.743E h= 0.0 km
erh= 2.1km erz= 3.8km
nr= 13 gap= 89 rms=0.63
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	22.3	239	Pg	9:13:13.36	0.71
			Sg	13:15.59	-0.16
ABAH	49.0	131	Pg	9:13:17.41	0.00
			Sg	13:23.34	-0.89
PSZ	97.6	220	Pg	9:13:26.46	0.38

Hypocenter Parameters

		Sg	13:38.68	-0.99	
STHS	99.2	22	ePg	9:13:25.90	-0.47
		eSg	13:39.40	-0.78	
LANS	112.6	304	Pg	9:13:28.79	0.02
KOLS	118.8	71	ePg	9:13:31.20	1.32
		eSg	13:46.10	-0.33	
VYHS	141.2	266	Pn	9:13:33.53	0.23
		Sn	13:51.27	-1.26	

765.

2019-08-27 time: 9:53:55.20 UTC ML= 0.7
lat: 47.208N lon: 18.293E h= 0.0 km
erh= 1.7km erz= 3.2km
nr= 8 gap=120 rms=0.36
Locality: Moha
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	17.4	352	Pg	9:53:58.53	0.23
			Sg	54:00.63	-0.10
PKST	20.4	286	Pg	9:53:58.77	-0.07
			Sg	54:01.45	-0.23
MORH	113.5	166	Sg	9:54:30.95	-0.34
PKSM	113.9	166	Pg	9:54:16.17	0.63
			Sg	54:31.12	-0.29
PSZ	144.1	57	Sn	9:54:39.00	-0.69

766.

2019-08-27 time: 11:36:28.06 UTC ML= 1.6
lat: 48.584N lon: 20.721E h= 0.0 km
erh= 2.7km erz= 5.5km
nr= 9 gap=107 rms=0.69
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	20.7	237	Pg	11:36:32.67	0.92
			Sg	36:35.07	0.44
ABAH	50.0	130	Pg	11:36:36.55	-0.44
PSZ	96.2	220	Pg	11:36:44.47	-0.76
			Sg	36:59.02	0.39
STHS	100.2	22	ePg	11:36:46.30	0.35
LANS	111.4	304	ePg	11:36:48.30	0.34
			eSg	37:02.70	-0.78
VYHS	139.5	266	Sn	11:37:09.83	-1.72

767.

2019-08-28 time: 8:57:36.83 UTC ML= 1.7
lat: 48.359N lon: 19.823E h= 0.0 km
erh= 1.9km erz= 572km
nr= 8 gap=153 rms=0.42
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	49.3	174	Pg	8:57:46.07	0.44
			Sg	57:52.48	-0.02
KECS	51.0	74	Pg	8:57:46.39	0.46
			Sg	57:52.51	-0.51
A336	62.7	257	Sg	8:57:56.82	0.06
VYHS	74.6	282	Sg	8:58:00.13	-0.40
ABAH	105.3	94	Sg	8:58:09.65	-0.64
A338	115.8	251	Sg	8:58:13.28	-0.37

Földrengés paraméterek

768.

2019-08-28 time: 9:49:35.85 UTC ML= 0.9
lat: 47.236N lon: 18.330E h= 0.0 km
erh= ---km erz= ---km
nr= 4 gap=188 rms=0.19
Locality: Moha
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	15.0	340	Sg	9:49:40.43	-0.20
PKST	22.5	276	Pg	9:49:40.08	0.21
			Sg	49:42.79	-0.21
PKSM	116.4	168	Sg	9:50:12.81	-0.03

769.

2019-08-28 time: 10:03:21.12 UTC ML= 1.6
lat: 47.872N lon: 19.135E h= 0.0 km
erh= 2.0km erz= 382km
nr= 10 gap=213 rms=0.30
Locality: Nőtincs
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	14.2	129	Pg	10:03:23.68	0.02
			Sg	03:25.31	-0.34
A336	41.4	346	Pg	10:03:28.64	0.12
			Sg	03:34.75	0.46
PSZ	57.1	85	Pg	10:03:31.57	0.26
			Sg	03:39.50	0.25
VYHS	72.7	342	Pg	10:03:34.09	0.00
			Sg	03:43.84	-0.37
KECS	121.3	56	ePg	10:03:42.20	-0.58
			eSg	03:58.50	-1.18*

770.

2019-08-29 time: 7:47:52.44 UTC ML= 1.1
lat: 47.300N lon: 18.429E h= 0.0 km
erh= 3.3km erz= 7.9km
nr= 10 gap=114 rms=1.03
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	10.6	344	Pg	7:47:54.03	-0.31
			Sg	47:54.68	-1.14
CSKK	14.6	299	Pg	7:47:55.66	0.62
			Sg	47:56.96	-0.11
PKST	30.2	261	Sg	7:48:01.56	-0.49
MORH	121.6	172	Sg	7:48:31.06	-0.04
PKSM	122.0	172	Sg	7:48:31.03	-0.20
PSZ	129.9	58	Sg	7:48:33.15	-0.57
VYHS	136.2	13	ePn	7:48:20.80	4.34
			eSn	48:34.90	-0.29

771.

2019-08-29 time: 8:22:25.62 UTC ML= 1.3
lat: 46.126N lon: 18.060E h= 0.0 km
erh= 2.0km erz= 297km
nr= 9 gap=255 rms=0.23
Locality: Hetvehely
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	5.2	144	PgU	8:22:26.49	-0.05
			Sg	22:27.80	0.54
PKSV	30.3	151	Pg	8:22:31.02	-0.01
			Sg	22:35.24	0.00
PKSM	45.9	78	Pg	8:22:33.75	-0.06
			Sg	22:40.08	-0.12
MORH	46.2	78	Pg	8:22:33.82	-0.04

Földrengés paraméterek

			Sg	22:39.96	-0.34
PKB4	58.7	45	Sg	8:22:45.09	0.81
772.					
2019-08-29 time: 8:33:53.11 UTC ML= 2.0					
lat: 48.235N lon: 21.244E h= 0.0 km					
erh= 1.3km erz= 2.6km					
nr= 13 gap=105 rms=0.39					
Locality: Tállya					
Comments: probably explosion					
sta	dist	azm	phase	hr mn sec	res
ABAH	6.8	357	PgU	8:33:54.41	0.09
			Sg	33:55.66	0.40
KECS	62.6	296	Pg	8:34:04.08	-0.20
			Sg	34:12.33	-0.67
TRPA	97.0	97	Pg	8:34:10.51	0.07
			Sg	34:23.45	-0.50
PSZ	106.5	251	Pg	8:34:12.86	0.73
			Sg	34:26.41	-0.56
KOLS	108.6	44	ePg	8:34:12.60	0.10
			eSg	34:27.30	-0.33
VYHS	180.7	279	ePn	8:34:22.70	0.03
			eSn	34:45.30	-0.43
DRGR	194.9	145	Pn	8:34:24.56	0.12
			Sn	34:46.21	-2.67*
773.					
2019-08-29 time: 8:54:36.11 UTC ML= 0.9					
lat: 46.167N lon: 18.288E h= 0.0 km					
erh= 0.7km erz= 125km					
nr= 8 gap=200 rms=0.09					
Locality: Zobákpusztá					
Comments: probably explosion					
sta	dist	azm	phase	hr mn sec	res
KOVH	17.0	239	Pg	8:54:39.15	0.01
			Sg	54:41.58	0.07
PKSM	27.7	80	Pg	8:54:41.00	-0.06
			Sg	54:45.12	0.20
MORH	28.0	79	Pg	8:54:41.07	-0.04
			Sg	54:45.05	0.03
PKSV	31.1	185	Pg	8:54:41.55	-0.12
			Sg	54:46.11	0.11
774.					
2019-08-30 time: 6:06:12.46 UTC ML= 0.9					
lat: 47.188N lon: 18.199E h= 0.0 km					
erh= 2.3km erz= 582km					
nr= 7 gap=149 rms=0.39					
Locality: Csór					
Comments: probably explosion					
sta	dist	azm	phase	hr mn sec	res
PKST	14.8	302	Pg	6:06:15.01	-0.09
			Sg	06:17.28	0.12
CSKK	20.0	13	Pg	6:06:15.60	-0.43
			Sg	06:19.10	0.28
MORH	113.3	163	Sg	6:06:48.26	-0.21
PKSM	113.7	163	Pg	6:06:33.45	0.69
			Sg	06:48.26	-0.33
775.					
2019-08-30 time: 7:43:17.99 UTC ML= 1.3					
lat: 47.083N lon: 17.902E h= 0.0 km					
erh= 4.8km erz= 627km					
nr= 10 gap=237 rms=0.49					
Locality: Veszprém					
Comments: probably explosion					

Hypocenter Parameters

sta	dist	azm	phase	hr mn sec	res
PKST	22.0	27	Pg	7:43:21.42	-0.50
			Sg	43:24.58	-0.41
CSKK	41.4	41	Pg	7:43:25.08	-0.29
			Sg	43:31.45	0.31
PKSG	50.5	47	Pg	7:43:27.27	0.26
			Sg	43:34.35	0.30
MORH	111.9	149	Pg	7:43:38.57	0.61
			Sg	43:53.09	-0.45
PKSM	112.1	150	Pg	7:43:38.47	0.46
			Sg	43:52.21	-1.42
776.					
2019-08-30 time: 7:47:05.27 UTC ML= 1.1					
lat: 47.860N lon: 19.103E h= 0.0 km					
erh= 2.6km erz= 378km					
nr= 6 gap=224 rms=0.23					
Locality: Szendehegy					
Comments: probably explosion					
sta	dist	azm	phase	hr mn sec	res
PENC	15.5	120	Pg	7:47:08.06	0.03
			Sg	47:09.34	-0.84
A336	42.2	349	Sg	7:47:18.63	-0.04
PSZ	59.5	84	Pg	7:47:16.12	0.22
			Sg	47:24.33	0.14
VYHS	73.2	344	Pg	7:47:18.23	-0.11
777.					
2019-08-30 time: 7:56:52.47 UTC ML= 1.1					
lat: 47.546N lon: 18.491E h= 0.0 km					
erh= 1.7km erz= 587km					
nr= 11 gap=109 rms=0.47					
Locality: Szárliget					
Comments: probably explosion					
sta	dist	azm	phase	hr mn sec	res
PKSG	18.8	204	Pg	7:56:55.72	-0.10
			Sg	56:59.12	0.69
CSKK	26.8	220	Pg	7:56:56.74	-0.51
			Sg	57:01.49	0.51
SRO	32.5	336	Sg	7:57:03.46	0.65
BUD	40.7	100	Sg	7:57:06.42	1.00
PKST	47.0	227	Pg	7:57:00.40	-0.46
			Sg	57:07.52	0.11
VYHS	108.5	14	Pg	7:57:11.95	0.11
			Sg	57:26.55	-0.40
PSZ	113.1	69	Sg	7:57:27.99	-0.43
778.					
2019-08-30 time: 15:14:55.59 UTC ML= 2.3					
lat: 48.537N lon: 22.851E h= 12.1 km					
erh= 3.0km erz= 2.3km					
nr= 18 gap=125 rms=0.75					
Locality: Ukraine					
Comments:					
sta	dist	azm	phase	hr mn sec	res
TRPA	50.8	207	Pg	15:15:05.54	0.63
			Sg	15:12.13	-0.06
KOLS	61.2	316	Pg	15:15:06.15	-0.59
			Sg	15:16.77	1.34
BMR	107.5	153	PnC	15:15:13.75	-0.72
			Sn	15:29.30	0.10
KWP	122.2	355	Pn	15:15:16.93	0.62
ABAH	122.3	257	Pn	15:15:15.39	-0.93
			Sn	15:32.56	0.07
STHS	153.0	310	Pn	15:15:19.59	-0.57
MESR	154.4	177	Sn	15:15:40.50	0.88
DRGR	194.3	183	Pn	15:15:25.01	-0.30
			Sn	15:48.50	0.02
ARCR	196.8	145	Pn	15:15:24.37	-1.24

Hypocenter Parameters

BURA 203.9 120 PnC 15:15:27.57 1.06
Sn 15:52.80 2.18
MARR 207.9 174 PnD 15:15:27.26 0.26
Sn 15:52.70 1.21

779.

2019-08-30 time: 21:06:54.70 UTC ML= 1.8
lat: 46.116N lon: 16.601E h= 10.0 km
erh= 2.4km erz= 2.5km
nr= 22 gap=135 rms=0.82
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
BEHE	41.6	19	Pg	21:07:02.32	-0.02
			Sg	07:08.01	-0.29
KOGS	45.7	324	PgU	21:07:03.12	0.06
			Sg	07:09.01	-0.56
PTJ	55.3	244	Pg	21:07:04.69	-0.04
			Sg	07:11.62	-0.93
ZAG	56.8	236	Pg	21:07:05.52	0.52
			Sg	07:13.68	0.64
GROS	92.9	294	Sg	21:07:23.70	-0.71
CRES	94.3	250	Pg	21:07:11.40	-0.24
			Sg	07:24.38	-0.47
KOVH	116.0	92	Pn	21:07:13.00	-1.91
			Sn	07:28.06	-2.62
PERS	128.0	297	Pn	21:07:17.08	0.67
			Sn	07:33.58	0.24
PKSV	130.4	101	Sn	21:07:32.00	-1.89
EGYH	155.0	21	Pn	21:07:20.68	0.89
PKSM	158.0	86	Pn	21:07:20.85	0.70
			Sn	07:41.05	1.04
MORH	158.2	86	Pn	21:07:21.07	0.89
			Sn	07:40.67	0.61
PKB4	160.0	75	Sn	21:07:41.42	0.96

780.

2019-08-30 time: 22:14:55.31 UTC ML= 1.5
lat: 46.128N lon: 16.578E h= 10.0 km
erh= 1.6km erz= 1.7km
nr= 20 gap=132 rms=0.53
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
BEHE	41.0	22	Pg	22:15:02.78	-0.07
			Sg	15:08.31	-0.42
KOGS	43.7	325	Pg	22:15:03.54	0.23
			Sg	15:09.40	-0.15
PTJ	54.3	242	Pg	22:15:05.22	0.06
			Sg	15:12.59	-0.26
ZAG	56.1	234	Pg	22:15:06.10	0.61
GROS	90.8	294	Sg	22:15:23.93	-0.42
CRES	93.1	249	Pg	22:15:11.79	-0.24
			Sg	15:24.75	-0.33
KOVH	117.8	92	Pn	22:15:14.50	-1.25
			Sn	15:28.70	-2.99*
PERS	125.8	297	Pn	22:15:17.41	0.66
			Sn	15:32.99	-0.49
PKSV	132.4	102	Pn	22:15:17.14	-0.43
PKSM	159.6	87	Pn	22:15:21.56	0.59
			Sn	15:41.48	0.49
MORH	159.9	86	Pn	22:15:21.77	0.77
			Sn	15:41.05	0.01
PKB4	161.4	75	Sn	22:15:41.91	0.54

Földrengés paraméterek

781.

2019-08-30 time: 22:17:25.04 UTC ML= 1.5
lat: 46.090N lon: 16.633E h= 12.4 km
erh= 2.1km erz= 1.7km
nr= 11 gap=149 rms=0.44
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
BEHE	43.6	15	Pg	22:17:33.40	0.27
			Sg	17:39.13	-0.32
KOGS	49.5	323	Pg	22:17:34.25	0.09
			Sg	17:39.96	-1.31
PTJ	56.4	248	Sg	22:17:42.89	-0.52
ZAG	57.5	240	Sg	22:17:43.97	0.25
CRES	95.8	252	P*	22:17:42.53	0.32
			S*	17:55.60	0.00
KOVH	113.4	90	Pn	22:17:44.88	0.24
			Sn	17:58.83	-1.09
PERS	131.5	297	Sn	22:18:04.20	0.26

782.

2019-08-30 time: 22:19:21.31 UTC ML= 1.6
lat: 46.127N lon: 16.606E h= 10.0 km
erh= 1.9km erz= 1.8km
nr= 21 gap=133 rms=0.66
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
BEHE	40.4	19	Pg	22:19:29.00	0.27
			Sg	19:34.79	0.27
KOGS	45.0	323	Pg	22:19:29.81	0.27
			Sg	19:35.78	-0.19
PTJ	56.1	243	Pg	22:19:31.46	-0.03
			Sg	19:38.63	-0.80
ZAG	57.8	235	Pg	22:19:32.33	0.55
			Sg	19:40.51	0.55
GROS	92.8	294	Sg	22:19:49.71	-1.27
CRES	95.1	249	Pg	22:19:38.15	-0.23
			Sg	19:51.30	-0.40
KOVH	115.6	92	Pn	22:19:39.69	-1.79
			Sn	19:54.44	-2.77
PERS	127.8	296	Pn	22:19:43.73	0.74
			Sn	19:59.91	0.00
PKSV	130.2	102	Pn	22:19:43.24	-0.06
ARSA	149.9	326	Sn	22:20:04.78	-0.04
PKSM	157.5	87	Sn	22:20:06.66	0.15
MORH	157.7	86	Pn	22:19:47.56	0.83
			Sn	20:06.83	0.27
PKB4	159.3	75	Sn	22:20:07.52	0.61

783.

2019-08-30 time: 22:41:22.05 UTC ML= 1.5
lat: 46.097N lon: 16.630E h= 10.0 km
erh= 5.6km erz= 6.9km
nr= 12 gap=147 rms=0.76
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
BEHE	43.0	15	Pg	22:41:30.20	0.26
			Sg	41:35.89	-0.19
KOGS	48.8	323	Pg	22:41:31.37	0.42
			Sg	41:37.27	-0.62
PTJ	56.5	247	Sg	22:41:40.28	-0.01
CRES	95.8	252	Pg	22:41:39.94	0.68
			Sg	41:52.15	-0.53
KOVH	113.7	90	Pn	22:41:41.18	-0.80
			Sn	41:56.00	-1.52
PKSV	127.8	100	Sn	22:42:00.01	-0.65
PKSM	155.9	85	Sn	22:42:08.59	1.69

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MORH	156.1	85	Sn	22:42:08.66	1.71	
784.						
2019-08-31 time: 0:53:37.52 UTC ML= 1.9						
lat: 46.120N lon: 16.651E h= 10.0 km						
erh= 2.1km erz= 2.1km						
nr= 30 gap= 73 rms=0.90						
Locality: Croatia						
Comments:						
sta	dist	azm	phase	hr mn sec	res	
BEHE	40.1	14	PgD	0:53:45.76	0.85	
			Sg	53:51.67	1.01	
KOGS	47.8	320	Pg	0:53:46.51	0.26	
			Sg	53:52.72	-0.33	
PTJ	59.0	246	Pg	0:53:48.14	-0.06	
			Sg	53:55.66	-0.88	
ZAG	60.3	238	Pg	0:53:49.11	0.67	
			Sg	53:57.17	0.21	
GROS	96.4	293	PgD	0:53:54.20	-0.62	
			Sg	54:05.91	-2.40	
CRES	98.2	251	Pg	0:53:54.83	-0.31	
			Sg	54:08.26	-0.62	
KOVH	112.1	92	PnU	0:53:56.45	-0.80	
			Sn	54:10.86	-1.78	
PKSV	126.6	102	Pn	0:53:58.33	-0.74	
			Sn	54:15.38	-0.50	
TIH	128.9	48	Pn	0:53:59.86	0.51	
PERS	131.3	296	Pn	0:54:00.52	0.88	
			Sn	54:15.96	-0.94	
SOKA	139.1	297	Pn	0:54:01.84	1.22	
			Sn	54:18.31	-0.33	
ARSA	152.5	326	Sn	0:54:21.40	-0.21	
EGYH	153.3	20	Pn	0:54:02.98	0.59	
			Sn	54:21.97	0.17	
PKSM	154.1	86	Pn	0:54:01.41	-1.08	
MORH	154.3	86	Pn	0:54:01.46	-1.06	
			Sn	54:23.42	1.41	
BLY	158.0	165	Pn	0:54:05.16	2.19	
			Sn	54:24.04	1.22	
OBKA	167.6	285	Sn	0:54:28.07	3.10	
785.						
2019-08-31 time: 7:58:34.13 UTC ML= 3.4						
lat: 46.113N lon: 16.656E h= 12.9 km						
erh= 1.2km erz= 1.1km						
nr= 54 gap= 74 rms=0.64						
Locality: Croatia						
Comments:						
sta	dist	azm	phase	hr mn sec	res	
BEHE	40.7	13	PgD	7:58:42.56	0.80	
			Sg	58:48.01	0.30	
KOGS	48.6	320	Pg	7:58:43.11	0.01	
			Sg	58:49.00	-1.11	
PTJ	59.0	246	PgU	7:58:44.89	-0.02	
			Sg	58:52.31	-1.01	
ZAG	60.2	238	PgU	7:58:45.86	0.74	
			Sg	58:53.72	0.02	
GROS	96.9	293	P*U	7:58:50.76	-0.65	
			S*	59:01.91	-2.98	
CRES	98.2	251	P*U	7:58:51.46	-0.15	
			S*	59:04.84	-0.40	
KOVH	111.7	91	PnU	7:58:53.20	-0.24	
			Sn	59:08.09	-0.41	
PKSV	126.2	101	PnU	7:58:55.08	-0.16	
TIH	129.1	47	Pn	7:58:55.47	-0.14	
			Sn	59:12.14	-0.22	
PERS	131.9	296	PnU	7:58:56.05	0.10	
			Sn	59:12.05	-0.92	
PKS9	135.6	67	Pn	7:58:55.98	-0.44	
SOKA	139.7	297	Pn	7:58:57.18	0.25	
			Sn	59:14.99	0.28	

Hypocenter Parameters

ARSA	153.3	326	Pn	7:58:59.30	0.68
			Sn	59:18.07	0.35
PKSM	153.8	86	PnU	7:58:58.16	-0.52
EGYH	153.9	20	Pn	7:58:59.19	0.50
			Sn	59:17.61	-0.25
MORH	154.0	86	PnU	7:58:58.20	-0.51
PKB4	156.0	74	Pn	7:58:58.68	-0.28
BLY	157.2	165	Pn	7:58:59.64	0.53
			Sn	59:19.98	1.39
PKST	165.4	40	PnU	7:59:00.05	-0.08
OBKA	168.1	285	Pn	7:59:00.75	0.28
PKB5	168.8	72	Pn	7:58:59.68	-0.88
SOP	174.7	358	Pn	7:59:03.96	2.67
RONA	178.5	351	Pn	7:59:02.26	0.50
			Sn	59:21.47	-1.85
PKB3	198.8	80	Pn	7:59:03.82	-0.47
PKS2	201.5	78	Pn	7:59:04.61	-0.02
CONA	210.6	343	Pn	7:59:06.32	0.55
SRO	227.2	34	Pn	7:59:08.45	0.61
			Sn	59:34.18	0.04
ZST	234.0	8	Pn	7:59:08.94	0.25
MYKA	238.9	284	Pn	7:59:10.37	1.07
			Sn	59:44.11	7.38*
MOA	265.2	317	Pn	7:59:14.14	1.57
			Sn	59:39.88	-2.68
FRGS	269.0	114	Pn	7:59:12.98	-0.07
SMOL	273.2	12	Pn	7:59:14.41	0.84
PENC	273.4	47	Pn	7:59:13.92	0.33
KBA	275.5	293	Pn	7:59:16.12	2.27
			Sn	59:45.20	0.36
BIOA	289.2	307	Pn	7:59:17.27	1.70
			Sn	59:44.92	-2.97*
A336	295.1	37	Pn	7:59:16.94	0.63
VYHS	311.9	32	Pn	7:59:18.52	0.13*
			Sn	59:50.51	-2.41*
PSZ	317.7	51	Pn	7:59:18.14	-0.98*
ABTA	326.2	282	Pn	7:59:21.82	1.64*
			Sn	8:00:12.19	16.09*
KRUC	328.4	357	Pn	7:59:20.60	0.14*
			Sn	59:54.04	-2.55*
BBL5	330.8	139	PnU	7:59:21.89	1.13*
			Sn	59:57.84	0.71*
VRAC	355.3	359	Pn	7:59:23.99	0.18*
SIRR	386.7	87	PnC	7:59:28.24	0.51*
BZS	389.2	98	PnU	7:59:27.92	-0.12*
KECS	391.6	48	Pn	7:59:28.14	-0.19*
			Sn	8:00:09.26	-1.36*
LANS	398.4	32	ePn	7:59:30.40	1.22*
WTTA	404.7	288	Pn	7:59:32.69	2.72*
			Sn	8:00:33.93	20.40*
KHC	407.5	325	ePn	7:59:31.90	1.58*
			eSn	8:00:13.00	-1.16*
WATA	411.4	289	Pn	7:59:33.29	2.49*
MORC	412.7	9	Pn	7:59:31.83	0.86*
			Sn	8:00:13.69	-1.61*
MDVR	422.4	111	PnC	7:59:32.56	0.38*
SURR	426.1	95	PnC	7:59:32.58	-0.05*
SQTA	434.6	286	Pn	7:59:47.07	13.37*
			Sn	8:00:43.80	23.63*
KRLC	440.7	1	Pn	7:59:35.44	0.99*
MOTA	445.9	288	Pn	7:59:50.12	15.01*
			Sn	8:00:21.35	-1.33*
FETA	465.4	283	Pn	7:59:39.88	2.34*
			Sn	8:00:50.00	22.99*
HERR	470.6	107	PnC	7:59:38.76	0.57*
DRGR	471.4	81	Pn	7:59:38.11	-0.17*
			Sn	8:00:25.22	-3.10*
GZR	483.0	100	PnD	7:59:40.02	0.29*
BOVS	484.9	125	PnC	7:59:40.60	0.63*
MARR	501.0	83	PnC	7:59:41.71	-0.27*
STHS	503.2	43	ePn	7:59:42.80	0.55*
DAVA	534.4	284	Pn	7:59:45.93	-0.21*

Hypocenter Parameters

786.

2019-08-31 time: 8:18:29.46 UTC ML= 2.1
lat: 46.113N lon: 16.623E h= 10.0 km
erh= 2.1km erz= 1.9km
nr= 26 gap= 73 rms=0.87
Locality: Croatia
Comments:

sta	dist	azm	phase	hr	mn	sec	res
BEHE	41.4	17	Pg	8:18:37.52			0.46
			Sg	18:43.01			0.02
KOGS	47.0	322	Pg	8:18:38.26			0.22
			Sg	18:44.32			-0.42
PTJ	56.7	245	Pg	8:18:39.89			0.15
			Sg	18:47.50			-0.26
ZAG	58.1	237	Sg	8:18:49.00			0.80
GROS	94.6	294	Pg	8:18:45.70			-0.76
			Sg	18:57.18			-2.53
CRES	95.9	251	Pg	8:18:46.61			-0.06
			Sg	18:59.38			-0.71
KOVH	114.2	91	Pn	8:18:48.15			-1.31
			Sn	19:02.97			-2.09
PKSV	128.7	101	Pn	8:18:51.86			0.60
			Sn	19:07.02			-1.24
PERS	129.6	297	Pn	8:18:52.31			0.93
			Sn	19:07.17			-1.31
SOKA	137.5	297	Pn	8:18:53.45			1.09
			Sn	19:10.00			-0.22
ARSA	151.9	326	Sn	8:19:12.90			-0.51
PKSM	156.3	86	Sn	8:19:15.11			0.72
MORH	156.5	86	Sn	8:19:15.60			1.15
BLY	157.9	164	Sn	8:19:15.49			0.74
OBKA	165.7	285	Sn	8:19:18.11			1.63
RONA	178.1	352	Pn	8:18:58.45			1.03
			Sn	19:20.11			0.88

787.

2019-08-31 time: 8:47:46.91 UTC ML= 1.3
lat: 47.684N lon: 20.380E h= 2.8 km
erh= 5.4km erz=10.6km
nr= 7 gap=185 rms=0.61
Locality: Tenk
Comments:

sta	dist	azm	phase	hr	mn	sec	res
PSZ	44.7	306	Pg	8:47:55.74			0.82
			Sg	48:00.38			-0.78

788.

2019-08-31 time: 13:50:05.76 UTC ML= 1.0
lat: 47.675N lon: 20.383E h= 3.9 km
erh= 2.6km erz= 3.9km
nr= 9 gap=189 rms=0.38
Locality: Tenk
Comments:

sta	dist	azm	phase	hr	mn	sec	res
PSZ	45.5	306	Pg	13:50:14.40			0.47
			Sg	50:20.27			-0.02

789.

2019-09-01 time: 11:37:40.77 UTC ML= 1.3
lat: 47.686N lon: 18.179E h= 16.1 km
erh= 2.0km erz= 1.8km
nr= 16 gap=109 rms=0.63
Locality: Mocsa
Comments:

sta	dist	azm	phase	hr	mn	sec	res
SRO	17.4	36	Pg	11:37:45.08			0.07

Földrengés paraméterek

			Sg	37:47.43	-0.88
PKSG	36.4	154	Pg	11:37:48.23	0.34
			Sg	37:52.87	-0.56
CSKK	36.4	170	Sg	11:37:53.71	0.27
			Pg	11:37:48.69	0.41
A338	38.8	20	Sg	37:54.02	-0.12
			Sg	11:37:55.60	0.43
A339	42.3	292	Pg	11:37:50.88	0.94
PKST	48.7	193	Sg	37:56.20	-0.89
			Pg	11:37:53.04	-0.63
EGYH	70.4	245	Sg	38:03.25	-0.48
			P*	11:37:56.70	0.56
A336	86.3	45	S*	38:07.02	-1.11
			Pn	11:37:58.96	0.46
VYHS	102.3	29	Sn	38:10.85	-1.48

790.

2019-09-02 time: 6:51:21.52 UTC ML= 1.7
lat: 47.966N lon: 19.446E h= 0.0 km
erh= 1.5km erz= 504km
nr= 8 gap=113 rms=0.36
Locality: Terény
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PENC	23.0	212	Pg	6:51:25.59			-0.05
			Sg	51:28.74			-0.11
PSZ	33.9	99	Pg	6:51:27.48			-0.09
			Sg	51:32.66			0.36
A336	44.7	312	Pg	6:51:29.84			0.34
			Sg	51:36.19			0.47
VYHS	74.2	322	Sg	6:51:44.25			-0.86
KECS	96.3	53	eSg	6:51:51.60			-0.53

791.

2019-09-02 time: 8:37:36.15 UTC ML= 1.4
lat: 47.093N lon: 18.062E h= 0.0 km
erh= 3.3km erz= 707km
nr= 6 gap=143 rms=0.43
Locality: Vilonya
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PKST	18.6	354	Pg	8:37:39.14			-0.33
			Sg	37:42.19			0.13
TIH	25.0	211	Pg	8:37:40.51			-0.10
			Sg	37:44.97			0.88
CSKK	33.6	27	Sg	8:37:47.35			0.52
MORH	107.2	155	Sg	8:38:09.68			-0.54
KOLS	375.0	57	ePn	8:38:30.60			0.67*

792.

2019-09-02 time: 10:45:11.24 UTC ML= 2.8
lat: 45.619N lon: 20.528E h= 13.4 km
erh= 3.0km erz= 3.2km
nr= 19 gap=114 rms=0.47
Locality: Croatia
Comments:

sta	dist	azm	phase	hr	mn	sec	res
FRGS	77.8	226	PgD	10:45:25.14			-0.20
			Sg	45:36.13			-0.21
BZS	84.9	90	PgD	10:45:26.95			0.35
			Sg	45:38.03			-0.54
PKS6	132.0	326	Pn	10:45:33.15			0.12
			Sn	45:50.36			0.34
PKB3	136.6	311	Pn	10:45:34.05			0.46
			Sn	45:48.42			-2.61*
PKSN	150.9	340	Sn	10:45:54.24			0.03
MORH	160.5	294	Pn	10:45:35.82			-0.75
PKSM	160.5	294	Pn	10:45:36.21			-0.37
			Sn	45:56.29			-0.05

Földrengés paraméterek

PKB4	178.0	303	Pn	10:45:38.86	0.10
PKSV	179.6	280	Pn	10:45:39.53	0.57
			Sn	46:00.08	-0.49
DRGR	213.0	52	Pn	10:45:42.82	-0.30
BBLs	213.8	204	Pn	10:45:44.63	1.41
PSZ	260.1	349	Pn	10:45:48.56	-0.44
			Sn	46:17.78	-0.67
MORC	513.7	334	Sn	10:47:12.81	-1.92*

793.

2019-09-02 time: 11:00:31.64 UTC ML= 1.9
lat: 48.637N lon: 20.139E h= 0.0 km
erh= 1.5km erz= 3.9km
nr= 16 gap=107 rms=0.63
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	30.7	124	Pg	11:00:37.22	0.10
			Sg	00:41.28	-0.12
LANS	75.5	319	Pg	11:00:45.57	0.46
			Sg	00:54.82	-0.80
PSZ	81.9	193	Pg	11:00:46.93	0.67
			Sg	00:56.92	-0.75
NIE	87.9	8	Pg	11:00:47.54	0.20
			Sg	00:57.57	-2.01
ABAH	89.7	115	Pg	11:00:47.24	-0.42
			Sg	00:59.60	-0.56
A336	95.6	242	Pg	11:00:49.01	0.31
			Sg	01:01.43	-0.59
VYHS	97.5	261	Pg	11:00:49.17	0.12
			Sg	01:01.48	-1.15
OJC	177.8	352	Pn	11:01:02.21	1.37
			Sn	01:24.29	0.67

794.

2019-09-03 time: 8:43:35.71 UTC ML= 1.6
lat: 48.600N lon: 20.747E h= 0.0 km
erh= 1.2km erz= 2.6km
nr= 13 gap= 87 rms=0.40
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.3	236	Pg	8:43:40.24	0.37
			Sg	43:42.74	-0.37
ABAH	49.7	133	Pg	8:43:44.95	0.37
			Sg	43:50.45	-1.05
NIE	96.4	341	Pg	8:43:52.97	0.04
STHS	97.8	22	ePg	8:43:53.10	-0.08
			eSg	44:05.90	-0.90
PSZ	98.8	220	Pg	8:43:53.62	0.27
			Sg	44:06.97	-0.14
LANS	112.1	303	Pg	8:43:55.87	0.15
KOLS	118.1	72	eSg	8:44:13.60	0.34
VYHS	141.6	265	Pn	8:44:00.09	-0.31
			Sn	44:18.36	-1.30

795.

2019-09-04 time: 7:52:00.33 UTC ML= 1.5
lat: 48.595N lon: 20.768E h= 0.0 km
erh= 7.6km erz= 7.0km
nr= 7 gap=228 rms=0.86
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.3	239	Pg	7:52:04.88	0.22
			Sg	52:07.91	-0.13
ABAH	48.1	134	Pg	7:52:08.98	0.06
			Sg	52:14.88	-0.75
PSZ	99.3	221	Pg	7:52:19.44	1.38

Hypocenter Parameters

	Sg	52:30.46	-1.44
VYHS 143.1 266	Sn	7:52:43.46	-1.15

796.

2019-09-04 time: 8:12:20.13 UTC ML= 1.6
lat: 47.873N lon: 19.148E h= 0.0 km
erh= 1.2km erz= 224km
nr= 9 gap=209 rms=0.17
Locality: Nótincs
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	13.6	132	Pg	8:12:22.62	0.06
			Sg	12:24.44	-0.01
A336	41.6	345	Pg	8:12:27.68	0.13
			Sg	12:33.25	-0.08
PSZ	56.1	85	Pg	8:12:30.04	-0.10
			Sg	12:38.26	0.31
VYHS	72.8	341	Pg	8:12:33.05	-0.08
			Sg	12:43.49	0.21
KECS	120.4	56	ePg	8:12:41.30	-0.33
			eSg	12:56.80	-1.61*

797.

2019-09-04 time: 8:46:45.06 UTC ML= 1.8
lat: 47.109N lon: 17.955E h= 0.0 km
erh= 2.1km erz= 2.1km
nr= 20 gap=188 rms=0.67
Locality: Kádárta
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	17.7	20	Pg	8:46:47.99	-0.23
			Sg	46:51.10	0.41
TIH	23.7	191	Pg	8:46:50.20	0.91
			Sg	46:54.12	1.53
CSKK	36.5	39	Pg	8:46:51.81	0.23
			Sg	46:57.03	0.37
PKSG	45.6	46	Pg	8:46:53.31	0.12
			Sg	46:59.74	0.20
PKB5	82.5	134	Sg	8:47:11.89	0.60
PKB4	84.2	144	Sg	8:47:12.79	0.96
MORH	112.4	152	Pg	8:47:04.87	-0.26
			Sg	47:19.67	-1.13
PKSM	112.7	152	Pg	8:47:05.17	-0.02
			Sg	47:19.87	-1.02
KOVH	114.0	174	Pg	8:47:05.46	0.05
			Sg	47:20.33	-0.96
PKSV	137.6	170	Sn	8:47:26.75	-1.36
A336	147.5	32	Sn	8:47:29.51	-0.81
VYHS	167.5	23	Sn	8:47:34.38	-0.38
PSZ	171.6	58	Sn	8:47:33.88	-1.78

798.

2019-09-04 time: 11:04:55.22 UTC ML= 0.8
lat: 47.228N lon: 18.241E h= 0.0 km
erh= 4.4km erz= 441km
nr= 5 gap=251 rms=0.20
Locality: Iszkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	15.1	6	Pg	11:04:57.85	-0.06
			Sg	05:00.32	0.30
PKST	16.0	282	Pg	11:04:58.22	0.14
			Sg	04:59.91	-0.40
PKSG	21.4	32	Sg	11:05:01.93	-0.10

Hypocenter Parameters

799.

2019-09-05 time: 6:19:02.45 UTC ML= 1.7
lat: 47.320N lon: 18.423E h= 0.0 km
erh= 3.0km erz= 4.9km
nr= 8 gap=159 rms=0.57
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	8.3	343	PgU	6:19:04.01	0.08
			Sg	19:04.47	-0.62
CSKK	13.2	291	Pg	6:19:05.20	0.40
			Sg	19:06.91	0.27
PKST	30.2	257	Pg	6:19:08.41	0.57
			Sg	19:10.81	-1.24
PKSM	124.3	172	Sg	6:19:41.95	-0.02
VYHS	134.1	13	Sn	6:19:43.75	-0.98

800.

2019-09-05 time: 7:19:10.74 UTC ML= 1.2
lat: 48.074N lon: 20.667E h= 0.0 km
erh= 3.7km erz= 5.8km
nr= 7 gap=193 rms=0.71
Locality: Bükkszentlászló
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	47.4	343	Sg	7:19:26.25	0.44
ABAH	49.2	60	Pg	7:19:20.13	0.61
			Sg	19:25.65	-0.72
PSZ	60.2	253	Pg	7:19:22.04	0.55
			Sg	19:29.55	-0.33
A336	125.4	278	Sg	7:19:49.61	-0.98
VYHS	143.7	289	Sn	7:19:53.66	-1.49

801.

2019-09-05 time: 7:28:00.56 UTC ML= 1.6
lat: 48.585N lon: 20.759E h= 0.0 km
erh= 4.5km erz= 6.0km
nr= 9 gap=127 rms=0.89
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.2	241	Pg	7:28:05.23	0.54
			Sg	28:07.89	-0.03
ABAH	48.0	132	Pg	7:28:09.33	0.21
			Sg	28:14.71	-1.09
LANS	113.7	304	Pg	7:28:20.30	-0.56
KOLS	117.9	71	ePg	7:28:23.80	2.20
			eSg	28:36.30	-1.72
VYHS	142.3	266	Pn	7:28:25.42	0.08
			Sn	28:43.49	-1.18

802.

2019-09-05 time: 9:05:34.68 UTC ML= 2.0
lat: 47.323N lon: 18.450E h= 0.0 km
erh= 2.7km erz= 4.7km
nr= 10 gap=161 rms=0.50
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	8.9	330	PgU	9:05:36.21	-0.06
			Sg	05:36.73	-0.78
CSKK	15.0	287	Pg	9:05:37.81	0.45
			Sg	05:39.64	0.18
PKST	32.3	257	Pg	9:05:40.62	0.18
			Sg	05:43.95	-0.98
MORH	124.0	173	Sg	9:06:14.26	0.18

Földrengés paraméterek

PKSM	124.4	173	Sg	9:06:14.19	-0.02
VYHS	133.4	12	Pn	9:05:58.79	0.45
			Sn	06:15.39	-1.41

803.

2019-09-05 time: 9:07:53.49 UTC ML= 1.7
lat: 48.646N lon: 19.936E h= 0.0 km
erh= 2.1km erz= 410km
nr= 9 gap=236 rms=0.31
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	44.5	114	Pg	9:08:01.53	0.10
			Sg	08:06.80	-0.83
PSZ	81.0	182	Pg	9:08:08.22	0.26
			Sg	08:19.50	0.26
A336	83.2	236	Pg	9:08:08.43	0.09
			Sg	08:19.15	-0.78
ABAH	104.0	112	Pg	9:08:12.16	0.10
			Sg	08:26.43	-0.11
PENC	106.9	207	Sg	9:08:27.33	-0.13

804.

2019-09-05 time: 9:16:07.49 UTC ML= 1.2
lat: 47.745N lon: 18.704E h= 0.0 km
erh= 4.0km erz= ***km
nr= 11 gap=144 rms=1.11
Locality: Dorog
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
BUD	37.8	140	Sg	9:16:19.05	-0.45
PENC	43.6	83	Sg	9:16:20.42	-0.93
PKSG	45.8	211	Pg	9:16:15.59	-0.08
			Sg	16:21.81	-0.24
CSKK	54.0	218	Pg	9:16:17.13	0.00
			Sg	16:24.90	0.24
A336	58.5	22	Sg	9:16:23.66	-2.43
PKST	73.9	223	Pg	9:16:20.78	0.09
			Sg	16:30.52	-0.47
VYHS	83.8	7	ePg	9:16:25.50	3.05
			eSg	16:36.00	1.87

805.

2019-09-05 time: 9:44:25.12 UTC ML= 1.2
lat: 47.196N lon: 18.289E h= 0.0 km
erh= 2.2km erz= 252km
nr= 6 gap=271 rms=0.15
Locality: Sárkeszi
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	18.7	353	Pg	9:44:28.43	-0.03
			Sg	44:30.52	-0.55
PKST	20.5	290	Pg	9:44:28.75	-0.03
			Sg	44:31.77	0.13
PKSG	23.1	19	Pg	9:44:29.28	0.03
			Sg	44:32.65	0.18

806.

2019-09-05 time: 21:51:13.43 UTC ML= 1.9
lat: 48.570N lon: 22.432E h= 1.2 km
erh= 1.9km erz= 2.3km
nr= 11 gap=161 rms=0.47
Locality: Ukraine
Comments:

sta	dist	azm	phase	hr mn sec	res
KOLS	42.0	344	Pg	21:51:20.88	-0.05

Földrengés paraméterek

		Sg	51:26.68	-0.11
TRPA	49.5 171	Pg	21:51:22.60	0.33
		Sg	51:28.55	-0.62
ABAH	93.3 251	Pg	21:51:30.16	0.06
		Sg	51:42.75	-0.35
KWP	119.7 10	Pg	21:51:34.69	-0.12
STHS	128.2 317	ePn	21:51:38.30	2.01
		eSn	51:53.00	-1.12
KECS	144.1 266	eSn	21:51:58.00	0.34
DRGR	198.8 174	Sn	21:52:09.76	-0.05

807.

2019-09-06 time: 7:18:17.81 UTC ML= 2.4
lat: 48.165N lon: 21.229E h= 0.0 km
erh= 5.8km erz= ***km
nr= 7 gap=162 rms=1.05
Locality: Szerencs
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	14.6	3	Pg	7:18:20.44	0.02
			Sg	18:21.60	-0.86
KECS	65.5	303	ePg	7:18:31.20	1.69
			eSg	18:38.80	0.17
TRPA	97.6	92	Sg	7:18:49.66	0.84
PSZ	103.2	255	Sg	7:18:49.32	-1.29
KOLS	115.1	42	Sg	7:18:53.09	-1.30

808.

2019-09-06 time: 11:04:21.24 UTC ML= 1.8
lat: 48.375N lon: 19.862E h= 0.0 km
erh= 1.9km erz= 767km
nr= 11 gap= 82 rms=0.62
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	47.7	75	Pg	11:04:30.19	0.43
			Sg	04:36.25	-0.16
PSZ	50.8	177	Pg	11:04:30.40	0.08
			Sg	04:36.65	-0.75
A336	65.9	256	Pg	11:04:33.71	0.70
			Sg	04:41.74	-0.46
VYHS	77.0	280	Pg	11:04:35.82	0.82
			Sg	04:44.85	-0.88
LANS	91.0	341	Sg	11:04:49.98	-0.18
ABAH	102.5	95	Sg	11:04:52.91	-0.92
NIE	120.7	16	Sg	11:04:58.67	-0.94

809.

2019-09-07 time: 10:51:05.60 UTC ML= 1.3
lat: 48.025N lon: 19.663E h= 0.0 km
erh= 3.4km erz= 832km
nr= 7 gap=174 rms=0.55
Locality: Lucfalva
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	20.9	124	Pg	10:51:09.69	0.35
			Sg	51:12.10	-0.15
PENC	38.7	228	Pg	10:51:12.15	-0.35
			Sg	51:18.28	0.40
A336	54.6	295	Pg	10:51:15.23	-0.12
			Sg	51:24.15	1.20
VYHS	80.6	310	Sg	10:51:30.00	-1.21

Hypocenter Parameters

810.

2019-09-07 time: 10:57:29.53 UTC ML= 1.7
lat: 46.210N lon: 18.916E h= 8.3 km
erh= 1.1km erz= 1.3km
nr= 25 gap=186 rms=0.39
Locality: Baja
Comments:

sta	dist	azm	phase	hr	mn	sec	res
MORH	20.9	272	PgD	10:57:33.86			0.31
			Sg		57:36.74		0.05
PKSM	21.2	271	PgD	10:57:33.88			0.29
			Sg		57:36.80		0.05
PKB3	32.1	42	Pg	10:57:35.48			0.03
PKS2	38.9	36	Pg	10:57:36.76			0.14
			Sg		57:42.33		0.17
PKB4	39.9	323	PgU	10:57:37.06			0.26
			Sg		57:42.57		0.10
PKB5	45.0	342	PgU	10:57:37.86			0.16
			Sg		57:43.62		-0.45
PKB2	57.4	26	Pg	10:57:39.73			-0.16
			Sg		57:47.21		-0.76
PKSV	62.5	235	Pg	10:57:40.81			0.02
			Sg		57:48.67		-0.91
KOVH	64.4	258	Pg	10:57:40.97			-0.16
			Sg		57:49.11		-1.07
PKS9	64.5	311	Pg	10:57:41.58			0.45
			Sg		57:50.08		-0.11
PKS6	66.1	49	Pg	10:57:41.26			-0.17
PKS7	95.0	11	Sg	10:57:58.66			-1.17
PKST	134.7	330	Pn	10:57:53.51			1.22
			Sn		58:09.80		-0.25
PKSG	137.4	343	Sn	10:58:10.29			-0.35

811.

2019-09-07 time: 11:11:48.68 UTC ML= 1.2
lat: 48.040N lon: 19.659E h= 0.0 km
erh= 1.3km erz= 469km
nr= 11 gap=102 rms=0.38
Locality: Lucfalva
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PSZ	22.2	128	PgU	11:11:53.01			0.37
			Sg		11:55.27		-0.46
PENC	39.5	225	PgU	11:11:55.34			-0.40
			Sg		12:01.39		0.14
A336	53.6	294	Pg	11:11:58.36			0.11
			Sg		12:05.94		0.22
KECS	78.7	51	ePg	11:12:02.90			0.16
			eSg		12:13.90		0.19
VYHS	79.3	310	Pg	11:12:03.10			0.27
			Sg		12:13.09		-0.78
ABAH	121.0	76	Sg	11:12:25.09			-2.05

812.

2019-09-09 time: 6:52:35.66 UTC ML= 1.7
lat: 48.100N lon: 21.369E h= 0.0 km
erh= 7.0km erz= ***km
nr= 6 gap=224 rms=0.66
Locality: Tokaj
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
ABAH	23.8	336	Pg	6:52:40.48			0.57
			Sg	52:43.87			0.64
KECS	78.2	303	Pg	6:52:49.94			0.32
			Sg	52:59.92			-0.59
PSZ	111.9	260	Sg	6:53:10.32			-0.89
KOLS	114.2	36	Sg	6:53:10.90			-1.06

Hypocenter Parameters

813.

2019-09-09 time: 8:57:08.08 UTC ML= 1.2
lat: 46.197N lon: 18.280E h= 0.0 km
erh= 2.6km erz= 404km
nr= 7 gap=217 rms=0.30
Locality: Komló
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	18.4	229	Pg	8:57:11.53	0.17
			Sg	57:14.28	0.35
PKSM	27.9	87	Pg	8:57:12.91	-0.16
			Sg	57:17.02	0.06
MORH	28.2	86	Pg	8:57:12.91	-0.20
			Sg	57:17.57	0.53
PKSV	34.3	184	Sg	8:57:18.39	-0.60

814.

2019-09-10 time: 7:34:42.29 UTC ML= 2.0
lat: 47.269N lon: 17.617E h= 0.0 km
erh= 1.8km erz= 2.1km
nr= 14 gap=135 rms=0.93
Locality: Nagytevel
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
EGYH	27.1	307	Pg	7:34:47.32	0.18
			Sg	34:51.95	1.03
PKST	31.6	92	Pg	7:34:48.29	0.36
			Sg	34:52.88	0.55
TIH	46.1	153	Sg	7:34:57.18	0.25
CSKK	49.7	78	Pg	7:34:52.41	1.24
			Sg	34:58.32	0.22
PKSG	60.0	77	Sg	7:35:01.57	0.20
SRO	80.0	41	Sg	7:35:06.48	-1.26
KOVH	136.3	164	Sn	7:35:24.68	-0.39
MORH	140.9	146	Sn	7:35:24.02	-2.07
PKSM	141.2	146	Sn	7:35:25.22	-0.93
A336	149.1	44	Sn	7:35:25.97	-1.93
CONA	151.0	299	Sn	7:35:26.84	-1.49

815.

2019-09-10 time: 9:41:50.18 UTC ML= 0.5
lat: 47.240N lon: 18.254E h= 0.0 km
erh= 2.4km erz= 302km
nr= 5 gap=246 rms=0.14
Locality: Iszkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	13.7	2	Pg	9:41:52.79	0.16
			Sg	41:54.58	0.03
PKST	16.8	277	Pg	9:41:53.25	0.08
			Sg	41:55.31	-0.20
PKSG	19.8	31	Pg	9:41:53.56	-0.16

816.

2019-09-10 time: 14:25:58.55 UTC ML= 1.8
lat: 47.120N lon: 19.341E h= 0.0 km
erh= 6.2km erz= 882km
nr= 11 gap=183 rms=0.73
Locality: Örkény
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKS7	15.9	239	Pg	14:26:01.24	-0.15
			Sg	26:02.89	-0.71
PKB5	74.4	218	Pg	14:26:12.92	1.08
			Sg	26:23.30	1.10
PENC	74.7	357	Pg	14:26:13.07	1.18

Földrengés paraméterek

PKB4	89.3	219	Pg	14:26:14.75	0.26
PSZ	98.1	25	Pg	14:26:15.72	-0.35
			Sg	26:28.54	-1.19
PKS9	100.3	234	Pg	14:26:16.28	-0.19
MORH	113.8	208	Pg	14:26:18.21	-0.66
PKSM	114.3	208	Pg	14:26:18.32	-0.63

817.

2019-09-11 time: 8:18:41.74 UTC ML= 1.7
lat: 48.611N lon: 20.770E h= 0.0 km
erh= 3.4km erz= 4.8km
nr= 10 gap=130 rms=0.76
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	25.4	236	Pg	8:18:46.81	0.54
			Sg	18:49.72	-0.08
ABAH	49.3	135	Pg	8:18:50.63	0.08
			Sg	18:55.64	-1.78
PSZ	100.8	220	Pg	8:18:59.64	-0.10
LANS	112.8	302	Pg	8:19:02.18	0.30
			Sg	19:15.72	-1.87
KOLS	116.2	72	eSg	8:19:19.90	1.24
A336	137.7	252	Pn	8:19:06.41	0.47
			Sn	19:23.74	-1.07

818.

2019-09-11 time: 8:30:13.12 UTC ML= 1.9
lat: 47.928N lon: 20.113E h= 0.0 km
erh= 4.4km erz= 3.6km
nr= 8 gap=221 rms=0.57
Locality: Recsk
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	16.4	266	Pg	8:30:16.44	0.39
			Sg	30:18.88	0.55
PENC	64.1	256	Pg	8:30:24.74	0.18
			Sg	30:33.04	-0.45
KECS	67.6	24	Sg	8:30:34.30	-0.32
A336	89.7	292	Pg	8:30:29.59	0.45
			Sg	30:40.24	-1.39
PKSG	142.5	245	Sn	8:30:56.33	-0.93

819.

2019-09-11 time: 11:10:06.20 UTC ML= 1.0
lat: 47.197N lon: 18.277E h= 0.0 km
erh= 1.7km erz= 433km
nr= 6 gap=144 rms=0.25
Locality: Csór
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	18.5	356	Pg	11:10:09.67	0.16
			Sg	10:11.79	-0.30
PKST	19.6	291	Pg	11:10:10.01	0.31
			Sg	10:12.11	-0.33
PKSG	23.3	22	Sg	11:10:13.58	-0.04
MORH	112.6	166	Sg	11:10:41.71	-0.28

820.

2019-09-12 time: 7:07:38.60 UTC ML= 1.9
lat: 47.346N lon: 18.446E h= 0.0 km
erh= 3.8km erz= 8.8km
nr= 11 gap=113 rms=1.18
Locality: Gánt
Comments: probably explosion

Földrengés paraméterek

sta	dist	azm	phase	hr mn sec	res
PKSG	6.6	320	Pg	7:07:39.27	-0.50
			Sg	07:39.69	-1.00
CSKK	14.1	278	Pg	7:07:40.66	-0.46
			Sg	07:42.47	-0.62
PKST	32.6	253	Pg	7:07:47.77	3.35
A336	107.0	23	Sg	7:08:12.59	-0.01
PSZ	126.1	60	Pg	7:08:01.85	0.74
			Sg	08:18.63	-0.04
MORH	126.6	173	Sg	7:08:18.08	-0.75
PKSM	127.0	173	Sg	7:08:18.12	-0.84
KOVH	142.3	191	Sn	7:08:22.03	-0.67

821.

2019-09-12 time: 8:12:52.12 UTC ML= 1.1
lat: 46.119N lon: 18.070E h= 0.0 km
erh= 2.9km erz= 563km
nr= 10 gap=226 rms=0.45
Locality: Abaliget
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	4.1	147	Pg	8:12:52.64	-0.22
			Sg	12:54.05	0.62
PKSV	29.3	151	Pg	8:12:57.17	-0.18
			Sg	13:01.39	-0.04
PKSM	45.3	77	Pg	8:12:59.98	-0.22
			Sg	13:05.99	-0.52
MORH	45.6	76	Pg	8:13:00.67	0.41
			Sg	13:06.06	-0.55
PKS9	54.4	17	Sg	8:13:08.90	-0.51
PKB5	73.6	44	Pg	8:13:06.09	0.83
LANS	353.0	17	ePn	8:13:43.00	-0.16*
			eSn	14:00.50	-22.48*

822.

2019-09-12 time: 9:04:50.10 UTC ML= 1.6
lat: 48.570N lon: 20.756E h= 0.0 km
erh= 4.1km erz= ***km
nr= 9 gap= 91 rms=0.99
Locality: Tornanádaska
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	22.2	244	Pg	9:04:53.92	-0.15
ABAH	47.0	130	Pg	9:04:57.64	-0.85
			Sg	05:04.71	-0.33
PSZ	96.7	221	Pg	9:05:08.48	1.11
			Sg	05:20.84	0.00
NIE	99.8	341	Pg	9:05:09.75	1.83
LANS	114.5	304	Pg	9:05:09.34	-1.21
KOLS	118.6	70	Pg	9:05:11.58	0.29
			Sg	05:26.54	-1.27

823.

2019-09-12 time: 9:13:28.85 UTC ML= 2.0
lat: 48.327N lon: 21.228E h= 0.0 km
erh= 4.8km erz= 599km
nr= 6 gap=238 rms=0.36
Locality: Boldogkőújfalu
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	3.5	165	Pg	9:13:29.35	-0.13
			Sg	13:30.19	0.22
KECS	57.6	288	Pg	9:13:39.02	-0.12
			Sg	13:47.67	0.50
PSZ	109.1	245	Pg	9:13:48.51	0.17
			Sg	14:02.28	-1.26

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Hypocenter Parameters

824.

2019-09-12 time: 9:52:21.64 UTC ML= 1.1
lat: 47.216N lon: 18.274E h= 0.0 km
erh= 0.5km erz= 134km
nr= 7 gap=142 rms=0.09
Locality: Iszkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	16.4	356	Pg	9:52:24.69	0.12
			Sg	52:26.58	-0.27
PKST	18.8	285	Pg	9:52:25.00	0.01
			Sg	52:27.57	-0.04
PKSG	21.4	24	Pg	9:52:25.51	0.04
			Sg	52:28.36	-0.09
PKSM	115.1	166	Pg	9:52:42.17	-0.03

825.

2019-09-12 time: 9:58:15.25 UTC ML= 1.8
lat: 48.389N lon: 18.588E h= 0.0 km
erh= 4.1km erz= 6.7km
nr= 16 gap=128 rms=1.55
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
A336	35.1	120	Pg	9:58:22.03	0.52
			Sg	58:26.38	-0.02
A338	45.2	203	Sg	9:58:31.93	2.33
A337	61.4	255	Sg	9:58:36.69	1.94
PENC	84.3	142	Sg	9:58:41.09	-0.95
MODS	97.1	269	ePg	9:58:29.80	-2.79
			eSg	58:41.50	-4.62
LANS	106.5	37	ePg	9:58:35.90	1.63
			eSg	58:50.90	1.80
PSZ	110.4	118	Pg	9:58:35.26	0.30
			Sg	58:47.68	-2.66
PKSG	111.9	188	Sg	9:58:51.22	0.40
ZST	112.3	259	Sg	9:58:50.51	-0.44
PKST	132.4	198	Sn	9:58:56.56	-0.58
KECS	140.8	86	ePn	9:58:40.30	0.46
			eSn	58:56.50	-2.52

826.

2019-09-13 time: 9:59:43.23 UTC ML= 1.8
lat: 47.561N lon: 18.589E h= 0.0 km
erh= 2.3km erz= 463km
nr= 9 gap=151 rms=0.36
Locality: Gyermely
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	24.0	218	Pg	9:59:47.74	0.22
			Sg	59:51.35	0.49
CSKK	33.1	228	Pg	9:59:49.32	0.18
			Sg	59:53.63	-0.12
PKST	53.6	231	Pg	9:59:52.30	-0.51
			Sg	59:59.62	-0.66
PSZ	105.7	68	Sg	9:60:16.46	-0.37

827.

2019-09-13 time: 17:40:40.90 UTC ML= 3.2
lat: 46.146N lon: 16.648E h= 11.0 km
erh= 1.6km erz= 1.5km
nr= 48 gap= 70 rms=0.81
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
BEHE	37.4	15	PgD	17:40:49.23	1.37

Hypocenter Parameters

Földrengés paraméterek

			Sg	40:52.63	-0.66
KOGS	45.5	318	PgD	17:40:50.04	0.77
			Sg	40:55.93	0.14
PTJ	60.0	243	Pg	17:40:51.61	-0.19
			Sg	40:58.88	-1.42
ZAG	61.7	235	Pg	17:40:52.51	0.41
			Sg	41:00.71	-0.12
GOLS	80.6	259	ePg	17:40:55.23	-0.20
DOBS	91.1	270	iPgD	17:40:56.85	-0.44
GROS	95.0	292	Pg	17:40:57.44	-0.55
			Sg	41:09.31	-2.00
CRES	98.9	249	P*	17:40:58.35	-0.32
KOVH	112.4	93	Pn	17:40:59.92	-0.62
			Sn	41:13.56	-2.30
TIH	127.1	49	Pn	17:41:02.31	-0.07
PKSV	127.4	103	Pn	17:41:01.77	-0.65
			Sn	41:18.70	-0.50
PERS	129.8	295	Pn	17:41:02.80	0.09
			Sn	41:20.36	0.63
PKS9	134.7	69	Pn	17:41:02.77	-0.56
SOKA	137.6	295	Pn	17:41:03.70	0.01
			Sn	41:20.88	-0.58
ARSA	150.0	325	PnD	17:41:05.85	0.62
			Sn	41:23.83	-0.38
EGYH	150.7	20	Sn	17:41:23.58	-0.78
PKSM	154.1	87	PnU	17:41:04.81	-0.93
MORH	154.3	87	PnU	17:41:04.95	-0.82
PKB4	155.6	75	Pn	17:41:07.13	1.20
BLY	160.8	165	Pn	17:41:08.20	1.62
			Sn	41:28.36	1.76
PKST	163.0	41	PnD	17:41:06.89	0.04
OBKA	166.7	284	Pn	17:41:07.71	0.40
SOP	171.1	358	Pn	17:41:09.61	1.75
RONA	174.8	351	Pn	17:41:08.91	0.58
			Sn	41:29.03	-0.69
PKSG	192.1	44	Pn	17:41:10.37	-0.11
CONA	207.0	343	Pn	17:41:12.81	0.47
			Sn	41:35.96	-0.91
SRO	224.6	34	Pn	17:41:15.34	0.81
ZST	230.6	9	Pn	17:41:15.74	0.46
MYKA	237.5	283	Pn	17:41:16.96	0.82
			Sn	41:50.03	6.41*
MOA	262.2	316	Pn	17:41:20.55	1.33
			Sn	41:48.85	-0.25
FRGS	270.9	114	Pn	17:41:20.06	-0.24
BIOA	286.5	307	Pn	17:41:23.82	1.56
			Sn	41:54.56	0.05
A336	292.6	38	Pn	17:41:23.79	0.78
PSZ	315.8	51	PnD	17:41:26.37	0.47*
ABTA	324.8	282	Pn	17:41:27.04	0.01*
			Sn	42:01.69	-1.31*
KRUC	324.8	357	Pn	17:41:27.24	0.21*
BBLs	333.9	139	Pn	17:41:28.72	0.56*
VRAC	351.7	359	Pn	17:41:30.56	0.18*
SIRR	387.0	88	PnD	17:41:35.65	0.87*
KECS	389.5	48	ePn	17:41:35.10	0.00*
			eSn	42:15.30	-2.07*
BZS	390.2	99	Pn	17:41:34.67	-0.51*
WTTA	403.0	288	Pn	17:41:38.21	1.44*
			Sn	42:20.29	-0.06*
KHC	404.3	325	ePn	17:41:38.40	1.47*
			eSn	42:20.00	-0.64*
MORC	409.3	9	Pn	17:41:38.40	0.84*
ZVC	409.8	333	ePn	17:41:39.30	1.67*
MDVR	424.1	111	PnC	17:41:39.70	0.29*
SURR	426.8	96	PnC	17:41:39.66	-0.09*
KRLC	437.1	1	ePn	17:41:42.30	1.27*
GZR	484.0	100	PnC	17:41:46.60	-0.27*
LOT	559.1	98	PnD	17:41:56.69	0.45*

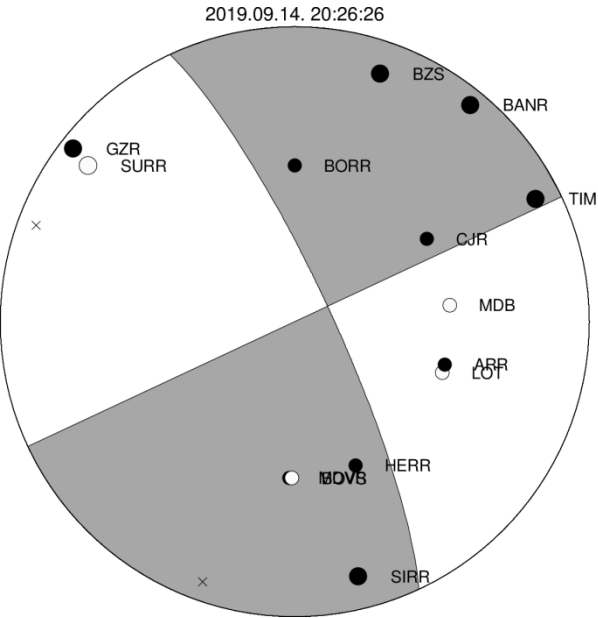
828.						
<hr/>						
2019-09-13 time: 22:29:34.98 UTC ML= 1.6						
lat: 46.131N lon: 16.603E h= 14.1 km						
erh= 2.9km erz= 2.4km						
nr= 20 gap=133 rms=1.00						
Locality: Croatia						
Comments:						
sta	dist	azm	phase	hr mn sec	res	
BEHE	40.0	19	PgD	22:29:42.85	0.30	
			Sg	29:46.22	-2.23	
KOGS	44.5	322	Pg	22:29:43.55	0.24	
			Sg	29:49.67	-0.14	
PTJ	56.1	243	Pg	22:29:45.33	0.02	
			Sg	29:52.57	-0.80	
ZAG	57.9	235	Sg	22:29:54.15	0.24	
GOLS	76.8	260	iPg	22:29:50.07	1.14	
GCIS	81.0	249	iPgC	22:29:49.89	0.23	
GROS	92.4	293	S*	22:30:02.84	-1.49	
CRES	95.0	249	P*	22:29:51.70	-0.17	
			S*	30:04.17	-0.87	
KOVH	115.9	92	Pn	22:29:53.69	-0.97	
			Sn	30:07.28	-2.73	
PERS	127.3	296	Sn	22:30:13.81	1.25	
PKSV	130.6	102	Sn	22:30:11.76	-1.52	
ARSA	149.4	326	Sn	22:30:18.12	0.67	
PKSM	157.7	87	Pn	22:30:01.31	1.43	
			Sn	30:21.15	1.85	
MORH	157.9	87	Sn	22:30:20.75	1.40	

829.						
<hr/>						
2019-09-14 time: 9:55:46.04 UTC ML= 2.0						
lat: 47.318N lon: 16.344E h= 0.0 km						
erh= 2.0km erz= 4.0km						
nr= 23 gap= 68 rms=0.98						
Locality: Austria						
Comments: probably explosion						
sta	dist	azm	phase	hr mn sec	res	
RONA	42.6	355	Pg	9:55:53.33	-0.32	
			Sg	55:58.95	-0.64	
SOP	43.8	22	Pg	9:55:53.90	0.05	
			Sg	55:58.78	-1.17	
ARSA	62.5	263	Pg	9:55:57.55	0.35	
			Sg	56:05.50	-0.41	
EGYH	75.5	82	Pg	9:56:00.41	0.89	
			Sg	56:08.24	-1.79	
CONA	76.9	332	Pg	9:56:00.58	0.80	
KOGS	96.9	184	Pg	9:56:04.24	0.89	
			Sg	56:15.55	-1.30	
BEHE	99.8	161	Pg	9:56:04.62	0.76	
			Sg	56:18.51	0.74	
GROS	114.8	214	Pg	9:56:06.45	-0.10	
			Sg	56:19.11	-3.43	
PERS	120.3	231	Pg	9:56:06.98	-0.54	
			Sg	56:23.29	-0.98	
SOKA	122.5	234	Sg	9:56:23.21	-1.76	
PKST	128.1	93	Pg	9:56:07.39	-1.52	
OBKA	163.6	237	Pn	9:56:15.21	1.73	
			Sn	56:35.16	0.28	
MOA	167.1	291	Pn	9:56:15.28	1.37	
			Sn	56:37.14	1.49	

830.						
<hr/>						
2019-09-14 time: 20:26:26.18 UTC ML= 2.5						
lat: 45.936N lon: 21.777E h= 7.9 km						
erh= 1.2km erz= 1.1km						
nr= 43 gap= 34 rms=0.67						
Locality: Romania						
Comments:						

Földrengés paraméterek

sta	dist	azm	phase	hr mn sec	res
SURR	33.8	127	PgD	20:26:32.69	0.31
			Sg	26:36.00	-1.21
BZS	37.6	199	PgU	20:26:33.17	0.12
			Sg	26:38.13	-0.27
SIRR	37.9	346	PgC	20:26:32.96	-0.14
			Sg	26:37.40	-1.09
TIM	48.5	243	PgC	20:26:35.72	0.76
			Sg	26:42.10	0.29
BANR	79.3	219	PgC	20:26:40.71	0.30
			Sg	26:51.20	-0.30
GZR	98.6	128	PgC	20:26:43.18	-0.66
DRGR	119.2	37	Pn	20:26:46.55	-0.53
			Sn	27:00.45	-2.93*
HERR	127.5	157	PnC	20:26:48.62	0.51
			Sn	27:04.30	-0.91
BORR	128.3	0	PnC	20:26:48.88	0.67
			Sn	27:04.40	-0.99
MDVR	128.4	182	PnC	20:26:48.36	0.13
			Sn	27:05.00	-0.42
MARR	132.1	52	Sn	20:27:04.20	-2.04
MESR	162.1	34	Sn	20:27:12.90	0.00
LOT	164.4	109	PnD	20:26:53.70	0.98
			Sn	27:14.70	1.29
CJR	164.7	58	PnC	20:26:53.91	1.16
			Sn	27:13.00	-0.48
FRGS	177.5	240	Pn	20:26:54.47	0.12
			Sn	27:16.17	-0.15
SRE	180.6	142	Sn	20:27:17.50	0.51
			Sn	20:27:18.98	1.77
PKSN	181.5	306	Sn	20:27:18.98	1.77
			Pn	20:26:55.10	-0.28
PKS6	185.8	293	Sn	27:18.69	0.54
			PnD	20:26:57.98	0.47
MDB	202.9	84	Sn	27:22.30	0.36
			Pn	20:26:57.75	-0.30
PKS2	207.2	287	PnC	20:27:01.98	0.90
ARR	231.5	106	Sn	27:28.70	0.40
			Pn	20:27:01.85	-0.83
MORH	244.3	277	Pn	20:27:01.90	-0.80
PKSM	244.5	277	Pn	20:27:03.43	-0.28
PKB4	252.6	284	Pn	20:27:03.43	-0.28
BOVS	255.8	181	PnD	20:27:04.07	-0.03
PSZ	262.9	327	Pn	20:27:05.23	0.24
ABAH	265.5	351	Pn	20:27:06.10	0.78
BBL5	296.3	219	Sn	20:27:41.72	-0.95*



Hypocenter Parameters

831.

2019-09-15 time: 9:09:59.72 UTC ML= 2.2
lat: 46.462N lon: 16.404E h= 12.4 km
erh= 1.5km erz= 1.1km
nr= 36 gap= 95 rms=0.62
Locality: Croatia
Comments:

sta	dist	azm	phase	hr	mn	sec	res
KOGS	11.9	263	PgD	9	10	02.85	0.05
			Sg		10	05.93	0.73
BEHE	28.5	88	PgD	9	10	04.19	-1.08
			Sg		10	08.18	-1.43
GROS	69.3	270	Pg	9	10	12.09	-0.21
			Sg		10	21.86	-0.25
PTJ	71.4	209	Pg	9	10	12.76	0.11
			Sg		10	22.18	-0.56
GOLS	78.3	230	iPg	9	10	14.23	0.35
			eSg		10	24.68	-0.25
DOBS	80.0	244	iPg	9	10	14.16	-0.01
			eSg		10	25.64	0.19
GCIS	89.3	222	iPg	9	10	15.98	0.16
			eSg		10	27.82	-0.56
CESS	90.7	233	iPg	9	10	16.37	0.30
PERS	100.6	281	P*	9	10	17.72	0.11
			S*		10	30.55	-1.01
LEGS	101.4	236	iP*	9	10	17.79	0.06
CRES	101.8	226	P*	9	10	17.96	0.18
			S*		10	30.99	-0.88
ZAVS	106.1	268	iPn	9	10	18.86	0.48
			eSn		10	33.02	0.08
SOKA	107.9	283	Pn	9	10	18.45	-0.16
			Sn		10	31.43	-1.92
ARSA	110.4	323	Pn	9	10	19.16	0.23
			Sn		10	32.74	-1.18
KOVH	137.1	108	Pn	9	10	22.47	0.21
			Sn		10	39.24	-0.60
RONA	137.8	357	Pn	9	10	22.72	0.38
			Sn		10	39.83	-0.16
OBKA	142.6	272	Pn	9	10	24.92	1.98
			Sn		10	43.32	2.27
PKSV	156.3	114	Pn	9	10	26.06	1.41
CONA	168.1	346	Pn	9	10	26.39	0.27
			Sn		10	46.78	0.06
MOA	223.8	314	Sn	9	10	58.69	-0.39

832.						
2019-09-16 time: 8:59:02.32 UTC ML= 2.1						
lat: 46.848N lon: 17.310E h= 0.0 km						
erh= 6.9km erz=13.3km						
nr= 9 gap=109 rms=1.04						
Locality: Vállus						
Comments: probably explosion						

sta	dist	azm	phase	hr mn sec	res	
TIH	44.8	83	Pg	8:59:11.74	1.42	
			Sg	59:18.09	1.53	
EGYH	63.3	1	Sg	8:59:22.02	-0.42	
			Pg	8:59:15.18	0.09	
PKST	71.5	50	Sg	59:24.10	-0.95	
			Sg	59:24.10	-0.95	
CSKK	92.1	52	Sg	8:59:31.96	0.37	
PKSG	101.8	54	Sg	8:59:33.49	-1.21	
KOVH	104.0	144	Sg	8:59:33.70	-1.67	
GROS	145.0	253	Sn	8:59:46.38	-0.64	

833.						
2019-09-16 time: 9:22:32.31 UTC ML= 1.5						
lat: 48.366N lon: 19.851E h= 0.0 km						
erh= 0.5km erz= 0.8km						
nr= 6 gap=169 rms=0.08						
Locality: Slovakia						
Comments: probably explosion						

Hypocenter Parameters

sta	dist	azm	phase	hr mn sec	res
KECS	48.8	74	Pg	9:22:41.04	0.02
			Sg	22:47.83	0.02
PSZ	49.8	176	Pg	9:22:41.11	-0.10
			Sg	22:48.24	0.09
A336	64.9	257	Sg	9:22:53.05	0.11
A337	153.5	265	Sn	9:23:18.83	-0.07

834.

2019-09-16 time: 9:23:39.53 UTC ML= 0.8
lat: 47.242N lon: 18.225E h= 0.0 km
erh= 5.8km erz= 574km
nr= 5 gap=240 rms=0.27
Locality: Bakonykúti
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	13.7	11	Pg	9:23:41.60	-0.38
			Sg	23:43.90	0.01
PKST	14.6	277	Pg	9:23:42.39	0.26
			Sg	23:44.09	-0.07
PKSG	20.8	37	Sg	9:23:46.43	0.28

835.

2019-09-16 time: 15:33:20.15 UTC ML= 1.2
lat: 45.795N lon: 17.981E h= 18.3 km
erh= 0.7km erz= 0.2km
nr= 8 gap=312 rms=0.05
Locality: Vejti
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	23.5	64	Pg	15:33:25.45	-0.01
			Sg	33:29.65	0.04
KOVH	33.9	16	Pg	15:33:26.96	-0.06
			Sg	33:32.43	0.05
PKSM	69.0	48	P*	15:33:32.71	0.03
			S*	33:42.53	0.08
MORH	69.5	48	P*	15:33:32.77	0.02
			S*	33:42.46	-0.12

836.

2019-09-16 time: 23:24:29.35 UTC ML= 1.2
lat: 45.734N lon: 17.263E h= 15.8 km
erh= 7.3km erz= 4.4km
nr= 8 gap=341 rms=0.30
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
KOVH	76.0	59	P*	23:24:43.43	0.25
			S*	24:53.58	-0.39
PKSV	78.8	77	P*	23:24:43.98	0.37
			S*	24:54.54	-0.20
PKSM	119.3	64	Pn	23:24:48.92	-0.33
			Sn	25:05.01	0.24
MORH	119.7	63	Pn	23:24:49.02	-0.28
			Sn	25:05.11	0.25

837.

2019-09-16 time: 23:39:48.25 UTC ML= 1.5
lat: 45.888N lon: 17.174E h= 16.3 km
erh= 5.6km erz= 5.0km
nr= 10 gap=221 rms=0.39
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
BEHE	71.7	335	P*	23:40:01.68	0.31

Földrengés paraméterek

			S*	40:11.70	0.09
KOVH	75.1	73	P*	23:40:02.16	0.26
			S*	40:11.61	-0.93
PKSV	83.7	90	P*	23:40:03.06	-0.14
KOGS	94.7	311	P*	23:40:04.81	-0.07
			S*	40:16.57	-1.28
PKSM	119.1	72	Sn	23:40:23.98	0.47
MORH	119.5	72	Pn	23:40:08.01	-0.09
			Sn	40:23.86	0.28

838.

2019-09-17 time: 9:07:59.46 UTC ML= 1.8
lat: 45.691N lon: 17.443E h= 17.5 km
erh= 5.4km erz= 6.3km
nr= 12 gap=120 rms=0.83
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	66.6	71	P*	9:08:11.76	0.06
KOVH	67.5	49	P*	9:08:11.43	-0.40
BLY	106.7	191	Pn	9:08:16.28	-1.27
PKSM	109.5	58	Pn	9:08:18.39	0.48
			Sn	08:31.56	-0.74
MORH	109.9	58	Pn	9:08:18.17	0.21
			Sn	08:32.30	-0.09
PTJ	117.8	281	Sn	9:08:33.21	-0.93
PKB4	126.8	45	Pn	9:08:21.16	1.09
TIH	138.8	14	Sn	9:08:37.36	-1.45
CRES	155.3	276	Pn	9:08:24.77	1.15
			Sn	08:43.85	1.39

839.

2019-09-17 time: 9:17:37.79 UTC ML= 1.0
lat: 47.214N lon: 18.290E h= 0.0 km
erh= 2.9km erz= 318km
nr= 5 gap=263 rms=0.14
Locality: Iszkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	16.7	352	Pg	9:17:40.98	0.20
			Sg	17:42.97	-0.14
PKST	20.0	284	Pg	9:17:41.25	-0.11
			Sg	17:44.24	0.09
PKSG	21.2	21	Sg	9:17:44.41	-0.11

840.

2019-09-17 time: 10:21:58.07 UTC ML= 2.0
lat: 47.329N lon: 18.412E h= 0.0 km
erh= 1.0km erz= 350km
nr= 8 gap=112 rms=0.25
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	7.2	347	Pg	10:21:59.33	-0.03
			Sg	21:59.95	-0.41
CSKK	12.1	289	PgU	10:22:00.60	0.37
			Sg	22:01.83	-0.08
PKST	29.6	255	Sg	10:22:07.39	-0.09
MORH	125.0	172	Sg	10:22:37.64	-0.16
PKSM	125.4	172	Sg	10:22:37.67	-0.26
PSZ	129.3	60	Sg	10:22:39.49	0.32

Földrengés paraméterek

Hypocenter Parameters

841.

2019-09-17 time: 10:39:36.56 UTC ML= 1.8
lat: 47.336N lon: 18.458E h= 0.0 km
erh= 2.5km erz= 377km
nr= 6 gap=213 rms=0.22
Locality: Lovasberény
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	8.0	320	Pg	10:39:38.15	0.16
			Sg	39:38.75	-0.36
CSKK	15.2	281	Pg	10:39:39.49	0.20
			Sg	39:41.25	-0.16
MORH	125.4	174	Sg	10:40:16.07	-0.35
PKSM	125.8	174	Sg	10:40:16.61	0.06

842.

2019-09-18 time: 7:48:39.06 UTC ML= 1.2
lat: 46.099N lon: 18.037E h= 0.0 km
erh= 3.8km erz= 765km
nr= 11 gap=234 rms=0.62
Locality: Bükkösd
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	5.0	104	Pg	7:48:40.10	0.14
			Sg	48:40.99	0.32
PKSV	28.8	145	Pg	7:48:44.49	0.29
			Sg	48:48.78	0.57
PKSM	48.3	75	Pg	7:48:47.28	-0.42
			Sg	48:53.77	-0.66
MORH	48.7	75	Pg	7:48:47.40	-0.35
			Sg	48:53.60	-0.93
PKS9	57.3	19	Sg	7:48:56.84	-0.44
PKB4	62.1	45	Sg	7:49:01.13	2.33
PKB5	77.0	44	Sg	7:49:04.66	1.12

843.

2019-09-18 time: 9:04:09.02 UTC ML= 1.0
lat: 47.200N lon: 18.275E h= 0.0 km
erh= 1.8km erz= 488km
nr= 8 gap=143 rms=0.35
Locality: Csór
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	18.2	357	Pg	9:04:11.96	-0.31
			Sg	04:14.78	-0.02
PKST	19.4	290	Pg	9:04:12.51	0.03
			Sg	04:15.33	0.15
PKSG	23.1	22	Pg	9:04:12.99	-0.15
			Sg	04:16.63	0.28
PKSM	113.4	166	Pg	9:04:29.73	0.46
			Sg	04:43.61	-1.45

844.

2019-09-18 time: 9:18:48.42 UTC ML= 1.0
lat: 47.192N lon: 18.295E h= 0.0 km
erh= 1.1km erz= 143km
nr= 6 gap=273 rms=0.08
Locality: Sárkeszi
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	19.3	352	Pg	9:18:52.01	0.15
			Sg	18:54.45	-0.09
PKST	21.1	291	Pg	9:18:52.12	-0.07
			Sg	18:55.17	0.04
PKSG	23.4	18	Pg	9:18:52.60	-0.01
			Sg	18:55.82	-0.05

845.

2019-09-19 time: 6:31:33.35 UTC ML= 0.9
lat: 47.192N lon: 18.163E h= 0.0 km
erh= 6.8km erz= 713km
nr= 5 gap=270 rms=0.32
Locality: Pétfürdő
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	12.2	307	Pg	6:31:35.94	0.41
			Sg	31:36.98	-0.26
CSKK	20.4	21	Pg	6:31:36.59	-0.40
			Sg	31:39.96	0.13
PKSG	28.1	38	Sg	6:31:42.40	0.12

846.

2019-09-19 time: 6:33:43.85 UTC ML= 1.0
lat: 47.190N lon: 18.191E h= 0.0 km
erh= 4.9km erz= 516km
nr= 5 gap=269 rms=0.25
Locality: Csór
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	14.1	303	PgU	6:33:46.54	0.17
			Sg	33:48.13	-0.20
CSKK	19.9	15	Pg	6:33:47.24	-0.17
			Sg	33:49.95	-0.23
PKSG	27.0	34	Sg	6:33:52.97	0.53

847.

2019-09-19 time: 8:23:39.75 UTC ML= 1.9
lat: 47.904N lon: 19.412E h= 0.0 km
erh= 2.7km erz= 771km
nr= 7 gap=130 rms=0.51
Locality: Bercel
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	16.0	218	Pg	8:23:42.09	-0.51
			Sg	23:45.51	0.69
PSZ	36.1	87	Pg	8:23:46.07	-0.13
			Sg	23:51.56	0.33
A336	47.8	320	Pg	8:23:49.06	0.77
			Sg	23:54.30	-0.65
KECS	102.6	51	Pg	8:23:57.79	-0.27

848.

2019-09-20 time: 6:40:04.16 UTC ML= 1.2
lat: 48.050N lon: 20.686E h= 0.0 km
erh= 2.1km erz= 644km
nr= 10 gap=161 rms=0.52
Locality: Kisgyőr
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	49.4	56	Pg	6:40:13.60	0.62
			Sg	40:19.32	-0.54
KECS	50.4	343	Sg	6:40:19.92	-0.24
PSZ	60.9	256	Pg	6:40:15.39	0.36
			Sg	40:23.07	-0.44

Hypocenter Parameters

849.

2019-09-20 time: 9:53:46.72 UTC ML= 1.7
lat: 48.671N lon: 20.713E h= 0.0 km
erh= 6.1km erz= ***km
nr= 6 gap=217 rms=0.60
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	26.8	219	Pg	9:53:51.81	0.30
			Sg	53:54.49	-0.75
ABAH	57.0	137	Sg	9:54:05.09	0.24
PSZ	103.4	216	Pg	9:54:05.85	0.66
			Sg	54:18.68	-0.92
KOLS	118.2	76	Sg	9:54:23.67	-0.63

850.

2019-09-21 time: 8:46:40.04 UTC ML= 1.0
lat: 46.170N lon: 18.301E h= 0.0 km
erh= 0.4km erz=75.5km
nr= 6 gap=200 rms=0.04
Locality: Zobákpusztá
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	18.0	240	Pg	8:46:43.20	-0.06
			Sg	46:45.86	0.09
PKSM	26.7	80	Pg	8:46:44.83	0.02
			Sg	46:48.52	0.00
PKSV	31.5	187	Pg	8:46:45.66	-0.01
			Sg	46:50.08	0.01

851.

2019-09-21 time: 10:57:24.04 UTC ML= 0.3
lat: 47.481N lon: 18.306E h= 10.0 km
erh= 9.7km erz=10.2km
nr= 6 gap=287 rms=0.15
Locality: Oroszlány
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSG	11.8	147	Pg	10:57:26.98	0.19
			Sg	57:28.82	-0.12
CSKK	13.5	195	Pg	10:57:27.06	0.02
			Sg	57:29.34	-0.04
PKST	32.1	220	Pg	10:57:29.82	-0.22
			Sg	57:34.88	0.17

852.

2019-09-24 time: 8:32:23.04 UTC ML= 1.3
lat: 45.861N lon: 18.417E h= 0.0 km
erh= 4.0km erz= 594km
nr= 7 gap=259 rms=0.40
Locality: Villány
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSV	13.2	283	Pg	8:32:25.14	-0.25
			Sg	32:27.23	0.00
KOVH	35.2	316	Pg	8:32:29.53	0.20
			Sg	32:34.13	-0.11
PKSM	42.6	24	PgU	8:32:30.87	0.21
			Sg	32:36.91	0.32
PKB4	72.0	12	Sg	8:32:43.84	-2.10

Földrengés paraméterek

853.

2019-09-24 time: 8:51:25.64 UTC ML= 1.2
lat: 46.116N lon: 18.017E h= 0.0 km
erh= 2.5km erz= 411km
nr= 8 gap=237 rms=0.30
Locality: Bükkösd
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	7.1	115	Pg	8:51:26.92	0.01
			Sg	51:27.98	0.09
PKSV	31.1	144	Pg	8:51:31.20	0.00
			Sg	51:35.77	0.24
PKSM	49.4	77	Pg	8:51:34.19	-0.27
			Sg	51:40.50	-0.84
PKS9	56.2	21	Sg	8:51:43.66	0.17
PKB5	76.8	46	Sg	8:51:50.62	0.56

854.

2019-09-24 time: 9:38:55.17 UTC ML= 1.8
lat: 48.370N lon: 19.808E h= 0.0 km
erh= 4.5km erz= 550km
nr= 5 gap=263 rms=0.26
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	50.6	173	Pg	9:39:03.97	-0.23
			Sg	39:11.52	0.26
KECS	51.7	76	Pg	9:39:04.66	0.26
			Sg	39:11.66	0.05
ABAH	106.5	94	Sg	9:39:28.61	-0.40

855.

2019-09-24 time: 11:06:29.84 UTC ML= 0.7
lat: 47.201N lon: 18.286E h= 0.0 km
erh= 0.8km erz= 213km
nr= 6 gap=146 rms=0.12
Locality: Csór
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	18.2	354	Pg	11:06:32.95	-0.13
			Sg	06:35.52	-0.09
PKST	20.1	289	Pg	11:06:33.60	0.17
			Sg	06:36.14	-0.09
PKSG	22.7	20	Sg	11:06:37.17	0.12
PKSM	113.2	166	Sg	11:07:05.81	-0.02

856.

2019-09-24 time: 13:58:41.93 UTC ML= 1.8
lat: 48.535N lon: 20.746E h= 0.0 km
erh= 3.7km erz= ***km
nr= 10 gap=122 rms=0.86
Locality: Bódvaszilas
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	20.1	253	Pg	13:58:45.55	0.03
			Sg	58:48.13	-0.18
ABAH	45.2	126	Pg	13:58:50.15	0.15
			Sg	58:55.81	-0.49
PSZ	93.3	223	Pg	13:58:58.01	-0.58
			Sg	59:12.10	0.51
LANS	116.1	306	ePg	13:59:01.80	-0.86
			eSg	59:19.90	1.07
KOLS	120.8	69	ePg	13:59:05.80	2.31
			eSg	59:17.60	-2.71

Földrengés paraméterek

857.

2019-09-24 time: 18:40:09.27 UTC ML= 0.2
lat: 47.411N lon: 18.243E h= 0.3 km
erh= 2.2km erz=40.4km
nr= 5 gap=238 rms=0.33
Locality: Pusztavám
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	5.5	166	Pg	18:40:10.02	-0.23
			Sg	40:10.35	-0.67
PKSG	11.4	101	Pg	18:40:11.61	0.31
			Sg	40:13.01	0.13
PKST	23.1	223	Sg	18:40:16.88	0.26

858.

2019-09-24 time: 20:48:08.63 UTC ML= 0.9
lat: 47.396N lon: 18.253E h= 8.9 km
erh= 5.0km erz= 1.9km
nr= 7 gap=225 rms=0.40
Locality: Mór
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	3.7	171	Pg	20:48:10.06	-0.28
			Sg	48:10.44	-1.23
PKSG	10.4	92	PgD	20:48:11.42	0.35
			Sg	48:12.98	0.00
PKST	22.4	227	PgD	20:48:13.15	0.22
			Sg	48:16.67	0.38
PKSM	134.9	167	Sn	20:48:48.69	-0.38

859.

2019-09-24 time: 23:02:26.06 UTC ML= 0.8
lat: 47.334N lon: 18.279E h= 3.6 km
erh= 4.3km erz= 4.2km
nr= 7 gap=115 rms=0.21
Locality: Söréd
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	3.5	336	Pg	23:02:26.85	-0.11
			Sg	02:27.23	-0.43
PKSG	10.6	53	Pg	23:02:28.16	0.10
			Sg	02:29.80	0.18
PKST	20.3	246	PgD	23:02:29.94	0.19
			Sg	02:32.72	0.10
PKSM	127.8	167	Sn	23:03:05.72	-0.41

860.

2019-09-25 time: 0:32:14.10 UTC ML= 1.5
lat: 48.782N lon: 19.900E h= 0.2 km
erh= 2.7km erz= ***km
nr= 12 gap= 96 rms=0.94
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr mn sec	res
LANS	51.7	322	Pg	0:32:23.62	0.28
			Sg	32:29.80	-0.75
KECS	54.5	128	Pg	0:32:24.93	1.09
			Sg	32:30.83	-0.60
NIE	77.0	23	Pg	0:32:28.21	0.36
			Sg	32:36.78	-1.79
A336	90.3	227	Pg	0:32:30.95	0.72
			Sg	32:41.00	-1.81
PSZ	96.1	180	Pg	0:32:31.82	0.56
			Sg	32:43.81	-0.83
ABAH	112.8	119	Pg	0:32:34.65	0.41
			Sg	32:47.69	-2.25

Hypocenter Parameters

861.

2019-09-25 time: 6:31:48.86 UTC ML= 1.8
lat: 47.897N lon: 19.423E h= 0.0 km
erh= 1.3km erz= 2.8km
nr= 11 gap=135 rms=0.34
Locality: Bercel
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	15.9	222	Pg	6:31:51.37	-0.33
			Sg	31:54.13	0.21
PSZ	35.3	86	Pg	6:31:55.00	-0.16
			Sg	31:59.92	-0.16
A336	48.9	320	Pg	6:31:58.02	0.43
			Sg	32:03.83	-0.58
PKSG	95.8	234	Pg	6:32:05.88	-0.09
			Sg	32:19.56	0.24
KECS	102.4	50	ePg	6:32:07.70	0.56
			eSg	32:20.80	-0.60
MODS	168.3	288	eSn	6:32:38.80	0.07

862.

2019-09-25 time: 7:45:56.97 UTC ML= 1.3
lat: 47.498N lon: 16.298E h= 1.5 km
erh= 4.3km erz=66.0km
nr= 9 gap=201 rms=0.98
Locality: Austria
Comments:

sta	dist	azm	phase	hr mn sec	res
RONA	22.4	360	Pg	7:46:01.19	0.21
			Sg	46:03.36	-0.75
SOP	28.4	44	Pg	7:46:01.99	-0.06
			Sg	46:04.66	-1.35
CONA	58.0	326	Pg	7:46:08.95	1.62
			Sg	46:15.64	0.24
ARSA	64.7	245	Sg	7:46:16.07	-1.47
MODS	121.8	37	ePg	7:46:19.20	0.48
			eSg	46:34.10	-1.58

863.

2019-09-25 time: 9:03:00.46 UTC ML= 1.8
lat: 47.845N lon: 19.057E h= 0.0 km
erh= 4.7km erz= 545km
nr= 5 gap=245 rms=0.35
Locality: Verőce
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	17.9	110	Pg	9:03:04.04	0.39
			Sg	03:06.36	0.21
A336	43.4	354	Sg	9:03:14.45	0.19
PSZ	63.2	83	Pg	9:03:11.40	-0.35
			Sg	03:20.03	-0.52

864.

2019-09-25 time: 9:13:32.73 UTC ML= 1.9
lat: 45.723N lon: 17.267E h= 0.0 km
erh= 4.4km erz= 4.5km
nr= 12 gap=198 rms=0.64
Locality: Croatia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	76.3	58	Pg	9:13:46.78	0.43
			Sg	13:57.42	0.44
PKSV	78.7	77	Pg	9:13:47.34	0.55
			Sg	13:57.40	-0.36
BEHE	91.3	335	Pg	9:13:47.81	-1.22

Hypocenter Parameters

PTJ	103.6	281	Pg	9:13:51.49	0.26
			Sg	14:05.14	-0.53
KOGS	112.6	316	Sg	9:14:09.87	1.36
PKSM	119.6	63	Pg	9:13:53.92	-0.16
			Sg	14:09.79	-0.94
CRES	141.3	275	Pn	9:13:57.70	0.33
			Sn	14:16.12	-0.48

865.

2019-09-25 time: 9:31:14.06 UTC ML= 0.9
lat: 47.213N lon: 18.267E h= 0.0 km
erh= 3.1km erz= 400km
nr= 6 gap=261 rms=0.25
Locality: Iszkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	16.8	358	Pg	9:31:16.67	-0.38
			Sg	31:19.11	-0.28
PKST	18.4	286	Pg	9:31:17.42	0.08
			Sg	31:19.98	0.09
PKSG	22.0	25	Pg	9:31:18.21	0.22
			Sg	31:21.37	0.31

866.

2019-09-25 time: 9:58:00.40 UTC ML= 1.5
lat: 47.085N lon: 17.966E h= 0.0 km
erh= 2.8km erz= 418km
nr= 9 gap=200 rms=0.32
Locality: Litér
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	20.0	15	Pg	9:58:03.60	-0.38
			Sg	58:06.85	0.08
CSKK	38.1	36	Pg	9:58:07.40	0.19
			Sg	58:12.62	0.10
PKSG	46.9	43	Pg	9:58:08.64	-0.13
			Sg	58:15.30	0.00
PKSM	109.9	152	Pg	9:58:20.68	0.65
			Sg	58:35.09	-0.25
KOVH	111.2	175	Sg	9:58:35.36	-0.39

867.

2019-09-25 time: 11:47:19.30 UTC ML= 0.6
lat: 47.357N lon: 18.264E h= 2.4 km
erh= 5.0km erz= 2.4km
nr= 5 gap=170 rms=0.06
Locality: Csókakő
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	0.7	336	Pg	11:47:19.80	0.06
			Sg	47:20.08	-0.01
PKSG	10.3	68	Pg	11:47:21.10	-0.08
			Sg	47:22.73	0.08
PKST	20.5	238	Sg	11:47:25.86	-0.01

868.

2019-09-26 time: 0:57:05.05 UTC ML= 2.7
lat: 45.815N lon: 21.083E h= 12.0 km
erh= 1.4km erz= 1.1km
nr= 49 gap= 39 rms=0.75
Locality: Romania
Comments:

sta	dist	azm	phase	hr mn sec	res
TIM	13.8	129	PgC	0:57:08.40	0.07
			Sg	57:11.80	0.92
BZS	47.0	118	Pg	0:57:13.54	-0.19

Földrengés paraméterek

			Sg	57:19.28	-1.21
BANR	48.3	175	PgC	0:57:14.08	0.14
			Sg	57:20.00	-0.86
SIRR	67.2	42	PgD	0:57:16.80	-0.45
			Sg	57:25.30	-1.47
SURR	81.3	95	PgC	0:57:19.39	-0.34
			Sg	57:30.50	-0.68
FRGS	125.0	233	Pn	0:57:25.49	-0.64
			Sn	57:40.88	-1.69
MDVR	125.1	157	PnD	0:57:26.10	-0.04
			Sn	57:41.80	-0.79
GZR	140.2	110	PnC	0:57:29.21	1.18
			Sn	57:45.80	-0.16
DEV	141.6	87	PnC	0:57:29.10	0.89
			Sn	57:45.00	-1.27
PKS6	146.1	307	Pn	0:57:28.81	0.04
			Sn	57:46.27	-0.99
HERR	147.3	135	PnD	0:57:29.48	0.56
			Sn	57:47.30	-0.23
BORR	151.7	21	Sn	0:57:48.50	0.00
PKSN	152.4	322	Sn	0:57:48.27	-0.39
PKB3	160.9	295	Pn	0:57:30.50	-0.11
			Sn	57:48.45	-2.09
PKS2	162.9	298	Pn	0:57:31.07	0.21
DRGR	165.9	49	Pn	0:57:31.30	0.07
PKB2	171.1	304	Sn	0:57:54.42	1.60
DJES	173.4	139	PnD	0:57:33.02	0.84
			Sn	57:53.40	0.07
BSZH	176.5	339	Pn	0:57:32.16	-0.40
RMGR	179.9	135	Sn	0:57:55.80	1.03
MARR	183.9	59	PnD	0:57:34.10	0.62
			Sn	57:55.70	0.05
PKSM	194.2	283	Pn	0:57:34.24	-0.52
PKB5	200.8	296	Pn	0:57:36.52	0.93
PKB4	205.9	292	Pn	0:57:37.80	1.57
MESR	206.3	44	PnC	0:57:37.54	1.27
PKB1	206.8	301	Pn	0:57:36.94	0.61
LOT	213.4	101	PnC	0:57:37.71	0.55
CJR	218.1	63	PnC	0:57:39.13	1.38
PKSV	220.0	272	Pn	0:57:37.61	-0.38
BOVS	247.2	168	PnC	0:57:41.80	0.42
PSZ	250.8	339	Pn	0:57:41.90	0.08
BBLs	253.6	211	Pn	0:57:44.06	1.89
PKSG	270.7	310	Pn	0:57:44.38	0.08
ABAH	276.1	2	Pn	0:57:45.11	0.14
ARCR	288.3	61	PnC	0:57:47.03	0.54
VOIR	312.2	98	PnD	0:57:50.63	1.15*
BLY	328.1	249	Pn	0:57:51.51	0.05*
DOPR	334.6	87	PnC	0:57:53.65	1.38*
MLR	380.7	95	PnD	0:57:59.22	1.20*
RONA	421.5	300	Pn	0:58:03.91	0.81*
			Sn	58:45.11	-3.27*
CRES	437.2	270	Pn	0:58:04.71	-0.36*

869.

2019-09-26 time: 8:49:21.54 UTC ML= 1.5
lat: 48.609N lon: 20.766E h= 0.0 km
erh= 2.3km erz= 567km
nr= 8 gap=192 rms=0.41
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	25.0	236	Pg	8:49:26.32	0.32
			Sg	49:29.20	-0.28
ABAH	49.4	135	Pg	8:49:30.47	0.11
			Sg	49:36.68	-0.56
PSZ	100.4	220	Pg	8:49:39.74	0.27
			Sg	49:52.87	-0.58
LANS	112.7	302	Pg	8:49:41.97	0.31
			Sg	49:56.31	-1.04

Földrengés paraméterek

870.

2019-09-26 time: 10:14:37.74 UTC ML= 2.2
lat: 48.645N lon: 21.383E h= 0.0 km
erh= 6.0km erz= ***km
nr= 7 gap=169 rms=0.93
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	40.2	195	Pg	10:14:45.61	0.69
			Sg	14:51.87	1.35
KECS	68.6	255	Pg	10:14:50.07	0.08
			Sg	14:58.22	-1.33
KOLS	72.9	64	Pg	10:14:51.53	0.78
TRPA	103.0	124	Pg	10:14:55.23	-0.90
			Sg	15:08.89	-1.59

871.

2019-09-26 time: 11:09:35.92 UTC ML= 1.9
lat: 47.333N lon: 18.451E h= 0.0 km
erh= 2.7km erz= 536km
nr= 7 gap=208 rms=0.35
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	8.0	325	Pg	11:09:37.66	0.31
			Sg	09:38.10	-0.36
CSKK	14.8	283	Pg	11:09:38.88	0.31
			Sg	09:40.15	-0.48
PKST	32.6	255	Pg	11:09:41.40	-0.34
			Sg	09:46.74	0.46
PKSM	125.5	173	Sg	11:10:15.59	-0.23

872.

2019-09-26 time: 23:35:37.87 UTC ML= 0.6
lat: 47.391N lon: 18.241E h= 0.1 km
erh= 3.5km erz=72.8km
nr= 6 gap=223 rms=0.07
Locality: Mór
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	3.5	154	Pg	23:35:38.61	0.12
			Sg	35:38.87	-0.10
PKSG	11.3	90	PgD	23:35:39.86	-0.03
			Sg	35:41.43	-0.04
PKST	21.4	227	PgD	23:35:41.70	0.00
			Sg	35:44.63	-0.05

873.

2019-09-27 time: 8:44:48.41 UTC ML= 1.5
lat: 47.567N lon: 16.312E h= 7.4 km
erh= 2.9km erz= 2.3km
nr= 13 gap=152 rms=0.77
Locality: Austria
Comments:

sta	dist	azm	phase	hr mn sec	res
RONA	14.8	355	Pg	8:44:51.26	-0.10
			Sg	44:53.65	-0.02
SOP	22.6	55	Pg	8:44:52.36	-0.29
			Sg	44:54.83	-1.13
CONA	52.5	320	Pg	8:44:58.39	0.51
			Sg	45:05.05	-0.21
ARSA	69.2	239	Sg	8:45:10.11	-0.42
MODS	115.0	39	ePn	8:45:10.60	1.76
			eSn	45:23.90	-0.87
GROS	137.6	207	Sn	8:45:30.57	0.80
PERS	137.7	221	Sn	8:45:28.31	-1.49

Hypocenter Parameters

KRUC 166.3 2 Pn 8:45:15.86 0.63
Sn 45:35.45 -0.70

874.

2019-09-27 time: 11:06:01.24 UTC ML= 2.1
lat: 48.199N lon: 21.211E h= 0.0 km
erh= 0.5km erz= 0.7km
nr= 6 gap=158 rms=0.83
Locality: Ond
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	11.0	11	Pg	11:06:02.95	-0.25
KECS	62.4	300	Pg	11:06:12.83	0.45
TRPA	99.1	94	Pg	11:06:19.05	0.12
PENC	151.0	252	Pn	11:06:25.13	-1.97

875.

2019-09-28 time: 8:32:19.66 UTC ML= 0.9
lat: 46.140N lon: 18.320E h= 0.0 km
erh= 1.6km erz= 476km
nr= 7 gap=118 rms=0.32
Locality: Vasas
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	18.0	251	Pg	8:32:22.32	-0.54
			Sg	32:25.26	-0.10
PKSM	26.1	72	Pg	8:32:24.30	-0.01
			Sg	32:27.86	-0.09
PKSV	28.5	191	Pg	8:32:24.91	0.17
			Sg	32:29.23	0.52
PKS9	49.7	356	Sg	8:32:35.88	0.41

876.

2019-09-29 time: 6:26:06.91 UTC ML= 0.6
lat: 47.296N lon: 18.210E h= 7.4 km
erh= 1.5km erz= 1.2km
nr= 6 gap=200 rms=0.04
Locality: Bodajk
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	8.4	27	Pg	6:26:08.90	0.00
			Sg	26:10.39	-0.06
PKST	13.9	253	Pg	6:26:09.73	0.00
			Sg	26:11.91	-0.01
PKSG	17.3	52	Pg	6:26:10.26	-0.01
			Sg	26:12.98	0.09

877.

2019-09-29 time: 7:30:26.79 UTC ML= 0.4
lat: 47.411N lon: 18.099E h= 0.7 km
erh= 2.5km erz=39.0km
nr= 6 gap=259 rms=0.21
Locality: Aka
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	13.3	114	Pg	7:30:29.42	0.25
			Sg	30:30.82	-0.21
PKST	17.6	196	Pg	7:30:30.02	0.08
			Sg	30:32.13	-0.26
PKSG	22.1	96	Pg	7:30:30.82	0.07
			Sg	30:33.43	-0.40

Hypocenter Parameters

878.

2019-09-29 time: 19:52:54.55 UTC ML= 0.6
lat: 47.231N lon: 17.818E h= 5.4 km
erh= 6.2km erz=18.3km
nr= 7 gap=220 rms=0.74
Locality: Pénzesgyőr
Comments:

sta	dist	azm	phase	hr mn sec	res
PKST	16.7	79	Pg	19:52:58.31	0.63
			Sg	52:59.42	-0.70
CSKK	36.6	66	Sg	19:53:05.72	-0.58
EGYH	42.2	299	Sg	19:53:07.08	-0.99
PKSG	46.9	68	Pg	19:53:03.73	0.76
			Sg	53:08.54	-1.01

879.

2019-09-29 time: 20:07:00.47 UTC ML= 0.7
lat: 47.278N lon: 17.923E h= 7.3 km
erh= 3.0km erz= 2.3km
nr= 9 gap=205 rms=0.42
Locality: Nagyesztergár
Comments:

sta	dist	azm	phase	hr mn sec	res
PKST	8.7	104	Pg	20:07:02.52	0.02
			Sg	07:03.58	-0.50
CSKK	27.2	70	Pg	20:07:05.82	0.32
			Sg	07:08.98	-0.45
PKSG	37.5	70	Pg	20:07:07.94	0.64
			Sg	07:12.52	-0.11
PKSM	130.7	155	Sn	20:07:39.81	-0.52

880.

2019-09-29 time: 21:24:23.14 UTC ML= 0.5
lat: 47.289N lon: 17.968E h= 1.1 km
erh= 2.5km erz=13.8km
nr= 6 gap=225 rms=0.23
Locality: Bakonynána
Comments:

sta	dist	azm	phase	hr mn sec	res
PKST	6.0	123	Pg	21:24:24.01	-0.22
			Sg	24:25.18	0.11
CSKK	23.6	69	Sg	21:24:30.24	-0.41
PKSG	33.9	70	Pg	21:24:29.47	0.26
			Sg	24:34.13	0.20

881.

2019-09-30 time: 7:32:18.82 UTC ML= 1.9
lat: 47.909N lon: 19.410E h= 0.0 km
erh= 2.3km erz= 728km
nr= 7 gap=128 rms=0.48
Locality: Becske
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	16.3	216	Pg	7:32:21.81	0.08
			Sg	32:23.56	-0.43
PSZ	36.2	88	PgU	7:32:25.50	0.21
			Sg	32:30.42	0.08
A336	47.3	320	Pg	7:32:27.85	0.57
			Sg	32:33.31	-0.56
KECS	102.4	51	Sg	7:32:50.16	-1.20

Földrengés paraméterek

882.

2019-09-30 time: 9:23:40.15 UTC ML= 1.6
lat: 48.600N lon: 20.722E h= 0.0 km
erh= 2.8km erz= 5.2km
nr= 11 gap=128 rms=0.79
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	21.7	233	Pg	9:23:44.35	0.32
			Sg	23:46.55	-0.51
ABAH	51.1	131	Pg	9:23:49.39	0.12
			Sg	23:55.09	-1.30
PSZ	97.6	219	Pg	9:23:59.03	1.46
			Sg	24:10.63	-0.53
LANS	110.5	304	ePg	9:24:00.10	0.22
			eSg	24:13.80	-1.48
KOLS	119.9	72	ePg	9:24:01.60	0.03
			eSg	24:18.40	0.13
A336	133.9	252	Sn	9:24:21.09	-1.30

883.

2019-09-30 time: 10:47:43.17 UTC ML= 0.5
lat: 47.208N lon: 18.303E h= 0.0 km
erh= 1.0km erz= 138km
nr= 6 gap=268 rms=0.08
Locality: Székesfehérvár
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	17.6	349	Pg	10:47:46.22	-0.09
			Sg	47:48.76	0.00
PKST	21.1	286	Pg	10:47:47.05	0.11
			Sg	47:49.76	-0.12
PKSG	21.5	18	Pg	10:47:47.01	0.00
			Sg	47:50.10	0.09

884.

2019-10-01 time: 8:00:36.80 UTC ML= 1.4
lat: 48.000N lon: 20.354E h= 0.0 km
erh= 2.1km erz= 403km
nr= 6 gap=192 rms=0.25
Locality: Szarvaskő
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	35.5	255	Pg	8:00:43.47	0.32
			Sg	00:47.67	-0.43
KECS	54.6	10	Pg	8:00:46.73	0.18
			Sg	00:54.14	-0.02
ABAH	73.6	63	Pg	8:00:49.79	-0.16
			Sg	00:59.95	-0.26

885.

2019-10-01 time: 16:10:08.22 UTC ML= 0.8
lat: 47.347N lon: 18.362E h= 13.0 km
erh= 2.4km erz= 1.0km
nr= 6 gap=225 rms=0.04
Locality: Zámoly
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSG	5.4	23	PgU	16:10:10.76	0.02
			Sg	10:12.66	-0.04
CSKK	7.9	283	PgD	16:10:10.89	-0.05
			Sg	10:13.12	0.06
PKST	26.7	248	Pg	16:10:13.56	0.04
			Sg	10:17.62	-0.04

Földrengés paraméterek

886.

2019-10-02 time: 6:25:56.30 UTC ML= 1.0
lat: 47.300N lon: 18.328E h= 0.0 km
erh= 2.1km erz= 3.3km
nr= 8 gap=109 rms=0.37
Locality: Magyaralmás
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	8.7	324	Pg	6:25:57.93	0.08
			Sg	25:58.43	-0.63
PKSG	11.2	25	Pg	6:25:58.63	0.32
			Sg	25:59.85	-0.02
PKST	22.7	258	Pg	6:26:00.48	0.13
			Sg	26:03.78	0.27
PKSM	123.3	169	Sg	6:26:34.14	-1.37
PSZ	136.4	60	Sn	6:26:38.77	-0.32

887.

2019-10-02 time: 7:30:16.01 UTC ML= 1.5
lat: 47.339N lon: 18.432E h= 0.0 km
erh= 1.5km erz= 522km
nr= 10 gap=113 rms=0.41
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	6.6	332	PgU	7:30:16.94	-0.25
			Sg	30:17.56	-0.55
CSKK	13.2	282	Pg	7:30:18.38	0.02
			Sg	30:19.60	-0.60
PKST	31.3	253	Pg	7:30:22.05	0.45
			Sg	30:26.29	0.32
A336	108.1	23	Sg	7:30:50.67	0.30
PKSM	126.3	173	Sg	7:30:55.43	-0.73
PSZ	127.4	60	Pg	7:30:39.26	0.50
			Sg	30:56.29	-0.22

888.

2019-10-02 time: 10:05:33.55 UTC ML= 1.6
lat: 48.604N lon: 20.770E h= 0.0 km
erh= 1.7km erz= 380km
nr= 6 gap=192 rms=0.22
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.9	237	Pg	10:05:38.09	0.09
			Sg	05:40.99	-0.48
ABAH	48.7	135	Pg	10:05:42.38	0.12
			Sg	05:48.76	-0.29
PSZ	100.2	220	Sg	10:06:05.73	0.34
LANS	113.2	302	Pg	10:05:53.73	-0.04

889.

2019-10-02 time: 16:07:22.40 UTC ML= 0.6
lat: 47.276N lon: 18.224E h= 6.3 km
erh= 4.1km erz= 5.1km
nr= 6 gap=218 rms=0.08
Locality: Kincsesbánya
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	10.0	16	Pg	16:07:24.65	0.13
			Sg	07:26.04	-0.13
PKST	14.5	262	PgD	16:07:25.17	-0.05
			Sg	07:27.44	0.02
PKSG	18.0	44	PgU	16:07:25.81	0.00
			Sg	07:28.41	-0.05

Hypocenter Parameters

890.

2019-10-02 time: 21:06:12.89 UTC ML= 1.7
lat: 47.735N lon: 16.210E h= 10.0 km
erh= 2.4km erz= 1.8km
nr= 18 gap= 93 rms=0.73
Locality: Austria
Comments:

sta	dist	azm	phase	hr mn sec	res
RONA	7.6	121	PgU	21:06:15.68	0.55
			Sg	06:17.27	0.39
SOP	26.8	102	Pg	21:06:18.11	0.11
			Sg	06:21.32	-0.66
CONA	33.8	309	Pg	21:06:19.47	0.29
			Sg	06:24.34	0.26
ARSA	74.7	224	Pg	21:06:26.25	-0.10
			Sg	06:35.15	-1.70
ZST	84.1	52	Pg	21:06:27.07	-0.94
EGYH	91.5	113	Pg	21:06:29.51	0.18
MODS	106.7	48	eP*	21:06:31.80	-0.13
			eS*	06:44.20	-2.57
MOA	146.2	275	Pn	21:06:38.10	1.23
			Sn	06:56.81	1.23
PKST	147.3	111	Pn	21:06:37.96	0.94
PERS	147.7	214	Sn	21:06:54.24	-1.67
KRUC	148.2	5	Pn	21:06:36.57	-0.55
VRAC	177.2	9	Pn	21:06:40.39	-0.35

891.

2019-10-03 time: 8:32:00.08 UTC ML= 2.2
lat: 48.251N lon: 18.796E h= 0.0 km
erh= 2.5km erz= 6.0km
nr= 12 gap=109 rms=1.03
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
A336	15.2	98	Pg	8:32:03.34	0.55
			Sg	32:06.08	1.17
A338	42.2	232	Sg	8:32:14.35	0.85
PENC	62.8	145	Sg	8:32:19.88	-0.15
PKSG	100.3	198	Sg	8:32:31.29	-0.67
CSKK	106.6	202	Sg	8:32:33.43	-0.54
LANS	111.5	26	eSg	8:32:36.00	0.47
MODS	113.5	277	ePg	8:32:21.40	1.05
			eSg	32:34.90	-1.26
ZST	126.0	267	Sg	8:32:39.89	-0.25
KECS	127.8	78	Sg	8:32:38.08	-2.62
EGYH	143.6	230	Sn	8:32:42.35	-2.13

892.

2019-10-03 time: 8:35:57.69 UTC ML= 1.2
lat: 46.233N lon: 18.222E h= 0.0 km
erh= 1.8km erz= 235km
nr= 6 gap=244 rms=0.47
Locality: Mecsekpölöske
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	18.7	210	Pg	8:36:01.70	0.68
			Sg	36:03.41	-0.21
PKSM	32.5	94	Pg	8:36:03.59	0.10
			Sg	36:07.60	-0.41
PKSV	38.4	176	Pg	8:36:04.52	-0.03
			Sg	36:08.81	-1.08

Hypocenter Parameters

893.

2019-10-03 time: 12:50:48.35 UTC ML= 2.1
lat: 45.923N lon: 16.977E h= 5.5 km
erh= 3.2km erz= 3.3km
nr= 13 gap=173 rms=0.76
Locality: Croatia
Comments:

sta	dist	azm	phase	hr	mn	sec	res
BEHE	62.8	346	Pg	12:51:00.48			0.88
			Sg	51:08.92			0.54
PTJ	79.1	268	Pg	12:51:03.00			0.49
			Sg	51:12.08			-1.47
KOGS	81.0	316	Pg	12:51:03.22			0.38
			Sg	51:12.56			-1.59
KOVH	88.9	78	Pg	12:51:04.61			0.36
			Sg	51:15.52			-1.13
PKSV	99.0	92	Pg	12:51:05.88			-0.17
			Sg	51:18.54			-1.33
CRES	118.5	265	Pn	12:51:10.03			0.58
			Sn	51:25.24			-0.68
MORH	133.0	76	Sn	12:51:29.07			-0.06

894.

2019-10-04 time: 7:43:06.90 UTC ML= 1.6
lat: 48.110N lon: 21.336E h= 0.0 km
erh= 2.8km erz= 4.8km
nr= 9 gap=170 rms=0.74
Locality: Tarcál
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
ABAH	21.9	341	Pg	7:43:10.90			0.10
			Sg	43:14.11			0.26
KECS	75.5	303	Pg	7:43:21.09			0.72
			Sg	43:29.98			-0.91
TRPA	89.6	89	Pg	7:43:23.02			0.11
			Sg	43:34.50			-0.89
PSZ	109.6	259	Sg	7:43:41.33			-0.41
KOLS	114.8	37	Sg	7:43:42.08			-1.30
KWP	196.8	31	Sn	7:44:04.72			1.61

895.

2019-10-04 time: 8:23:25.15 UTC ML= 1.8
lat: 48.588N lon: 20.762E h= 0.0 km
erh= 1.7km erz= 524km
nr= 9 gap=100 rms=0.39
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	23.5	240	Pg	8:23:29.56			0.21
			Sg	23:32.57			-0.06
ABAH	48.0	133	Pg	8:23:33.58			-0.15
			Sg	23:40.20			-0.21
NIE	98.0	340	Pg	8:23:42.36			-0.30
PSZ	98.5	221	Pg	8:23:42.87			0.13
			Sg	23:56.27			-0.18
KOLS	117.6	71	Pg	8:23:47.03			0.88
			Sg	24:01.69			-0.83

896.

2019-10-04 time: 9:57:50.00 UTC ML= 0.9
lat: 47.185N lon: 18.301E h= 0.0 km
erh= 2.8km erz= 356km
nr= 6 gap=276 rms=0.22
Locality: Sárkeszi
Comments: probably explosion

Földrengés paraméterek

sta	dist	azm	phase	hr	mn	sec	res
CSKK	20.1	351	Pg	9:57:53.33			-0.25
			Sg	57:55.96			-0.42
PKST	21.8	292	Pg	9:57:53.95			0.06
			Sg	57:57.07			0.15
PKSG	24.0	17	Pg	9:57:54.46			0.17
			Sg	57:57.89			0.26

897.

2019-10-04 time: 10:08:25.21 UTC ML= 1.5
lat: 47.594N lon: 16.343E h= 0.0 km
erh= 2.4km erz= 3.2km
nr= 14 gap= 77 rms=0.86
Locality: Austria
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
RONA	12.3	343	Pg	10:08:27.64			0.24
			Sg	08:28.19			-0.92
SOP	19.0	58	Pg	10:08:28.70			0.10
			Sg	08:31.09			-0.15
CONA	51.8	316	Pg	10:08:35.50			1.04
ARSA	72.7	238	Pg	10:08:38.37			0.18
			Sg	08:47.12			-1.20
EGYH	77.0	105	Sg	10:08:50.77			1.08
KOGS	127.6	183	Sg	10:09:04.49			-1.27
PKST	132.9	106	Sn	10:09:06.36			-0.87
MOA	158.4	280	Pn	10:08:53.83			1.84
			Sn	09:12.58			-0.31
KRUC	163.3	1	Pn	10:08:52.21			-0.39
			Sn	09:12.07			-1.89

898.

2019-10-04 time: 11:13:23.06 UTC ML= 2.1
lat: 48.230N lon: 21.247E h= 0.0 km
erh= 2.1km erz= 5.4km
nr= 8 gap=154 rms=0.62
Locality: Tállya
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
ABAH	7.4	355	Pg	11:13:24.43			0.05
			Sg	13:25.59			0.18
KECS	63.1	297	Pg	11:13:34.30			-0.03
			Sg	13:41.91			-1.20
TRPA	96.7	97	Sg	11:13:53.10			-0.70
PSZ	106.6	251	Sg	11:13:57.33			0.39
KOLS	108.9	44	Sg	11:13:57.43			-0.23
STHS	132.0	360	ePn	11:13:47.90			1.35

899.

2019-10-05 time: 9:55:43.32 UTC ML= 1.5
lat: 47.337N lon: 18.277E h= 3.8 km
erh= 5.7km erz= 5.1km
nr= 7 gap=113 rms=0.20
Locality: Csákerény
Comments:

sta	dist	azm	phase	hr	mn	sec	res
CSKK	3.2	337	Pg	9:55:44.07			-0.14
			Sg	55:44.45			-0.45
PKSG	10.5	55	PgD	9:55:45.39			0.07
			Sg	55:46.98			0.10
PKST	20.3	245	Pg	9:55:47.21			0.19
			Sg	55:50.11			0.22
PKSM	128.1	167	Sn	9:56:23.15			-0.27

Földrengés paraméterek

900.

2019-10-07 time: 9:24:44.36 UTC ML= 1.5
lat: 48.551N lon: 20.782E h= 1.2 km
erh= 5.2km erz=57.9km
nr= 5 gap=239 rms=0.28
Locality: Tornanádaska
Comments:

sta	dist	azm	phase	hr mn sec	res
KECS	23.2	251	Pg	9:24:48.21	-0.29
			Sg	24:51.78	0.05
ABAH	44.2	130	Sg	9:24:58.45	0.04
PSZ	96.4	223	Pg	9:25:01.98	0.40
			Sg	25:14.73	-0.28

901.

2019-10-07 time: 11:08:54.00 UTC ML= 1.4
lat: 47.888N lon: 19.184E h= 0.0 km
erh= 0.2km erz=49.1km
nr= 6 gap=194 rms=0.03
Locality: Felsőpetény
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	13.1	146	Pg	11:08:56.34	0.00
			Sg	08:58.14	-0.02
A336	40.8	340	Pg	11:09:01.32	0.04
			Sg	09:06.90	-0.05
PSZ	53.2	86	Pg	11:09:03.49	-0.01
			Sg	09:10.92	0.01

902.

2019-10-07 time: 21:57:05.73 UTC ML= 1.2
lat: 47.725N lon: 18.284E h= 16.1 km
erh= 2.0km erz= 1.4km
nr= 20 gap=101 rms=0.65
Locality: Almásfüzitő
Comments:

sta	dist	azm	phase	hr mn sec	res
SRO	10.1	13	Pg	21:57:10.01	0.89
			Sg	57:10.92	-0.85
A338	32.7	9	Pg	21:57:12.95	0.71
			Sg	57:16.66	-0.65
PKSG	37.9	168	Pg	21:57:13.87	0.78
			Sg	57:19.27	0.45
CSKK	40.3	183	Pg	21:57:14.40	0.92
			Sg	57:19.34	-0.18
PKST	55.1	200	Pg	21:57:15.77	-0.22
			Sg	57:23.32	-0.67
BUD	61.8	116	Pg	21:57:24.71	-1.31
A336	77.7	43	S*	21:57:19.99	0.19
			S*	57:29.39	-1.38
EGYH	79.4	244	S*	21:57:30.08	-1.14
SOP	129.6	268	Sn	21:57:43.79	0.43

903.

2019-10-08 time: 7:09:27.16 UTC ML= 0.9
lat: 47.300N lon: 18.328E h= 0.0 km
erh= 1.7km erz= 275km
nr= 6 gap=234 rms=0.16
Locality: Magyaralmás
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	8.7	324	Pg	7:09:28.72	0.00
			Sg	09:29.74	-0.19
PKSG	11.3	25	Pg	7:09:29.18	0.00
			Sg	09:30.93	0.18
PKST	22.7	259	Pg	7:09:31.07	-0.14

Hypocenter Parameters

Sg 09:34.80 0.43

904.

2019-10-08 time: 9:22:30.95 UTC ML= 1.5
lat: 48.589N lon: 20.717E h= 0.0 km
erh= 3.4km erz= 5.5km
nr= 8 gap=148 rms=0.67
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	20.7	235	Pg	9:22:34.61	-0.03
			Sg	22:37.46	-0.06
ABAH	50.6	130	Pg	9:22:40.94	0.97
			Sg	22:45.29	-1.73
PSZ	96.3	219	Pg	9:22:48.65	0.50
			Sg	23:01.04	-0.53
NIE	96.9	342	Pg	9:22:48.09	-0.16
A336	133.2	253	Sn	9:23:12.11	-0.91

905.

2019-10-08 time: 9:41:35.04 UTC ML= 0.8
lat: 47.201N lon: 18.292E h= 0.0 km
erh= 1.8km erz= 232km
nr= 6 gap=269 rms=0.15
Locality: Székesfehérvár
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	18.2	352	Pg	9:41:38.13	-0.17
			Sg	41:40.63	-0.20
PKST	20.6	288	Pg	9:41:38.84	0.12
			Sg	41:41.54	-0.04
PKSG	22.5	19	Pg	9:41:39.10	0.04
			Sg	41:42.46	0.26

906.

2019-10-09 time: 1:18:50.71 UTC ML= 0.4
lat: 47.359N lon: 18.271E h= 10.0 km
erh= 4.3km erz= 1.0km
nr= 5 gap=170 rms=0.56
Locality: Csókakő
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	0.9	301	Pg	1:18:52.17	-0.34
			Sg	18:52.49	-1.42
PKSG	9.8	68	Pg	1:18:53.50	0.29
			Sg	18:55.12	-0.04
PKST	21.0	238	Pg	1:18:55.44	0.56

907.

2019-10-09 time: 4:13:31.35 UTC ML= 0.9
lat: 47.336N lon: 18.272E h= 0.5 km
erh= 4.3km erz=33.4km
nr= 6 gap=189 rms=0.09
Locality: Csákberény
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	3.1	344	Pg	4:13:31.93	0.02
			Sg	13:32.26	-0.09
PKSG	10.9	55	Pg	4:13:33.30	0.01
			Sg	13:34.80	-0.01
PKST	19.9	244	PgD	4:13:35.01	0.11
			Sg	13:37.40	-0.28

Hypocenter Parameters

908.

2019-10-09 time: 8:03:43.99 UTC ML= 1.7
lat: 47.323N lon: 18.428E h= 0.0 km
erh= 0.9km erz= 324km
nr= 10 gap=113 rms=0.25
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	8.2	340	Pg	8:03:45.22	-0.23
			Sg	03:45.54	-1.04
CSKK	13.4	289	Pg	8:03:46.57	0.18
			Sg	03:48.39	0.13
PKST	30.6	257	Pg	8:03:49.69	0.23
			Sg	03:53.47	-0.26
MORH	124.2	172	Sg	8:04:23.49	0.03
PKSM	124.6	172	Sg	8:04:23.21	-0.38
PSZ	128.6	59	Pg	8:04:07.09	0.14
			Sg	04:24.96	0.10

909.

2019-10-09 time: 9:07:27.32 UTC ML= 1.8
lat: 48.758N lon: 20.726E h= 10.0 km
erh= 5.5km erz= 4.7km
nr= 7 gap=166 rms=0.81
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr mn sec	res
KECS	35.3	210	Pg	9:07:34.60	0.72
			Sg	07:37.82	-1.17
ABAH	63.9	144	Pg	9:07:39.19	0.32
			Sg	07:47.15	-0.72
NIE	79.4	338	Sg	9:07:51.52	-1.26
PSZ	111.9	213	Pn	9:07:47.85	0.82
			Sn	08:01.65	-0.74

910.

2019-10-09 time: 9:30:23.33 UTC ML= 0.7
lat: 47.193N lon: 18.297E h= 0.0 km
erh= 2.6km erz= 327km
nr= 6 gap=272 rms=0.20
Locality: Székesfehérvár
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	19.1	352	Pg	9:30:26.62	-0.12
			Sg	30:28.98	-0.42
PKST	21.2	290	Pg	9:30:27.03	-0.09
			Sg	30:30.36	0.29
PKSG	23.2	18	Pg	9:30:27.68	0.21
			Sg	30:30.77	0.07

911.

2019-10-09 time: 10:48:14.25 UTC ML= 1.8
lat: 48.305N lon: 21.170E h= 0.0 km
erh= 4.0km erz= 819km
nr= 8 gap=166 rms=0.63
Locality: Gibárt
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	5.3	101	Pg	10:48:14.69	-0.51
			Sg	48:15.52	-0.41
KECS	54.4	291	Pg	10:48:24.54	0.57
PSZ	104.2	246	Sg	10:48:48.15	0.76

Földrengés paraméterek

912.

2019-10-10 time: 1:35:07.38 UTC ML= 1.9
lat: 46.193N lon: 16.364E h= 10.0 km
erh= 1.5km erz= 2.2km
nr= 15 gap=170 rms=0.41
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
KOGS	29.7	343	Pg	1:35:13.62	0.64
			Sg	35:18.13	0.78
BEHE	44.2	46	Pg	1:35:15.30	-0.18
			Sg	35:21.36	-0.43
PTJ	45.3	224	Pg	1:35:15.17	-0.49
			Sg	35:21.68	-0.44
ZAG	49.6	215	Pg	1:35:16.38	-0.04
			Sg	35:23.98	0.52
DOBS	69.3	266	iPg	1:35:19.94	0.05
GROS	72.8	294	Pg	1:35:20.57	0.06
			Sg	35:29.84	-0.90
CRES	81.3	240	Pg	1:35:22.25	0.25
			Sg	35:33.33	-0.08
PERS	107.8	297	Pn	1:35:26.67	0.09
			Sn	35:39.72	-1.84

913.

2019-10-10 time: 7:02:24.47 UTC ML= 0.8
lat: 47.183N lon: 18.201E h= 0.0 km
erh= 1.3km erz= 342km
nr= 7 gap=141 rms=0.22
Locality: Csór
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	15.2	304	Pg	7:02:27.12	-0.06
			Sg	02:29.49	0.19
CSKK	20.6	13	Pg	7:02:27.79	-0.35
			Sg	02:30.93	-0.07
PKSG	27.3	32	Pg	7:02:29.68	0.33
PKSM	113.1	163	Pg	7:02:44.77	0.11
			Sg	03:00.24	-0.17

914.

2019-10-10 time: 8:16:47.06 UTC ML= 2.1
lat: 46.851N lon: 17.290E h= 0.0 km
erh= 3.0km erz= 920km
nr= 8 gap=122 rms=0.65
Locality: Vállus
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
TIH	46.3	83	Sg	8:17:02.93	1.15
EGYH	63.0	3	Sg	8:17:06.70	-0.39
PKST	72.5	51	Sg	8:17:09.16	-0.95
KOGS	91.3	241	Pg	8:17:03.64	0.27
			Sg	17:16.61	0.52
CSKK	93.1	52	Sg	8:17:17.33	0.67
PKSG	102.9	54	Sg	8:17:19.77	-0.01
KOVH	105.2	144	Pg	8:17:05.07	-0.77

915.

2019-10-10 time: 8:44:32.11 UTC ML= 1.2
lat: 46.175N lon: 18.306E h= 0.0 km
erh= 1.8km erz= 310km
nr= 7 gap=202 rms=0.21
Locality: Zobákpusztá
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	18.6	239	Pg	8:44:35.16	-0.27

Földrengés paraméterek

			Sg	44:38.12	0.09
PKSM	26.2	81	Pg	8:44:37.00	0.21
			Sg	44:40.57	0.13
MORH	26.5	80	Pg	8:44:36.95	0.11
			Sg	44:40.11	-0.43
PKSV	32.1	187	Sg	8:44:42.36	0.03

916.

2019-10-10 time: 9:12:57.95 UTC ML= 1.5
lat: 48.573N lon: 20.795E h= 0.0 km
erh= 6.8km erz= 824km
nr= 6 gap=247 rms=0.48
Locality: Tornanádaska
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	25.0	246	Pg	9:13:02.23	-0.18
			Sg	13:05.15	-0.74
ABAH	45.1	133	Pg	9:13:06.29	0.29
			Sg	13:11.40	-0.88
PSZ	98.9	223	Pg	9:13:16.16	0.54
			Sg	13:29.56	0.17

917.

2019-10-10 time: 9:27:13.73 UTC ML= 1.8
lat: 47.331N lon: 18.448E h= 0.0 km
erh= 1.4km erz= 2.8km
nr= 9 gap=114 rms=0.36
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	8.0	327	Pg	9:27:15.17	0.00
			Sg	27:15.67	-0.61
CSKK	14.6	284	Pg	9:27:16.50	0.16
			Sg	27:17.77	-0.60
PKST	32.3	256	Pg	9:27:19.90	0.40
MORH	124.9	173	Sg	9:27:53.14	-0.29
PKSM	125.3	173	Sg	9:27:53.14	-0.42
PSZ	126.8	59	Sg	9:27:54.37	0.32
KOVH	140.7	191	Sn	9:27:57.89	0.41

918.

2019-10-10 time: 9:36:44.32 UTC ML= 1.0
lat: 47.202N lon: 18.278E h= 0.0 km
erh= 1.6km erz= 494km
nr= 10 gap=144 rms=0.38
Locality: Csór
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	17.9	356	Pg	9:36:47.11	-0.41
			Sg	36:50.07	0.06
PKST	19.5	289	Pg	9:36:47.77	-0.03
			Sg	36:50.68	0.17
PKSG	22.7	22	Pg	9:36:48.18	-0.19
			Sg	36:52.06	0.52
MORH	113.2	166	Pg	9:37:05.08	0.54
			Sg	37:19.89	-0.41
PKSM	113.6	166	Pg	9:37:04.83	0.23
			Sg	37:19.25	-1.17

919.

2019-10-11 time: 9:59:13.23 UTC ML= 2.2
lat: 46.815N lon: 17.310E h= 0.0 km
erh= 2.5km erz= 3.8km
nr= 9 gap=119 rms=1.41
Locality: Vállus
Comments: probably explosion

192

Hypocenter Parameters

sta	dist	azm	phase	hr mn sec	res
BEHE	56.1	227	Sg	9:59:31.99	0.94
PKST	74.0	48	Sg	9:59:38.73	1.99
KOGS	90.8	243	Pg	9:59:30.05	0.60
			Sg	59:43.43	1.34
KOVH	101.0	143	Sg	9:59:45.65	0.30
MORH	122.2	123	Sg	9:59:50.63	-1.43
PKSM	122.2	123	Sg	9:59:50.84	-1.24
GROS	143.9	254	Sn	9:59:55.37	-2.32
ARSA	144.2	290	Sn	9:59:55.32	-2.43

920.

2019-10-13 time: 13:21:20.38 UTC ML= 0.6
lat: 47.320N lon: 18.253E h= 2.0 km
erh= 3.5km erz= 8.3km
nr= 5 gap=195 rms=0.23
Locality: Fehérvárcsurgó
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	4.8	7	Pg	13:21:21.59	0.27
			Sg	21:21.88	-0.16
PKSG	13.1	53	Pg	13:21:22.85	0.09
			Sg	21:24.38	-0.23
PKST	17.8	248	Sg	13:21:25.72	-0.37

921.

2019-10-13 time: 23:15:48.54 UTC ML= 0.2
lat: 47.425N lon: 18.855E h= 8.4 km
erh= 1.0km erz= 1.2km
nr= 11 gap=159 rms=0.28
Locality: Sósút
Comments:

sta	dist	azm	phase	hr mn sec	res
BUD	14.3	63	Pg	23:15:51.62	0.12
			Sg	15:53.50	-0.30
PKSG	35.3	264	Pg	23:15:55.36	0.34
			Sg	16:00.30	0.23
CSKK	45.4	261	Sg	23:16:03.02	-0.21
PKST	64.7	253	Sg	23:16:08.96	-0.33
PKB1	71.4	184	Sg	23:16:11.63	0.24
PKB5	92.7	186	Sg	23:16:18.07	-0.07
PKB4	105.0	191	Sg	23:16:21.44	-0.59
MORH	135.4	187	Sn	23:16:29.39	0.19
PKSM	135.9	187	Sn	23:16:29.09	-0.22

922.

2019-10-14 time: 7:12:13.79 UTC ML= 1.5
lat: 47.583N lon: 18.484E h= 0.0 km
erh= 2.5km erz= 218km
nr= 6 gap=335 rms=0.13
Locality: Vértestolna
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	22.4	198	Pg	7:12:17.80	0.02
			Sg	12:20.92	0.03
CSKK	29.7	215	Pg	7:12:18.89	-0.19
			Sg	12:23.25	0.04
PKST	49.5	223	Pg	7:12:22.80	0.18
			Sg	12:29.43	-0.08

923.

2019-10-14 time: 10:03:44.70 UTC ML= 1.5
lat: 48.583N lon: 20.789E h= 0.0 km
erh= 2.6km erz= 986km
nr= 12 gap=114 rms=0.81
Locality: Tornanádaska
Comments: probably explosion

Hypocenter Parameters

sta	dist	azm	phase	hr mn sec	res
KECS	25.0	244	Pg	10:03:49.10	-0.07
			Sg	03:51.78	-0.87
ABAH	46.2	134	Pg	10:03:52.83	-0.11
			Sg	03:59.34	-0.03
STHS	98.5	20	ePg	10:04:02.30	0.02
			eSg	04:13.70	-2.29
NIE	99.2	339	Pg	10:04:03.87	1.45
			Sg	04:15.93	-0.31
PSZ	99.4	222	Pg	10:04:03.19	0.74
			Sg	04:16.22	-0.07
LANS	115.7	303	ePg	10:04:04.20	-1.15
			eSg	04:18.40	-3.06

924.

2019-10-14 time: 10:05:27.69 UTC ML= 1.6
lat: 47.858N lon: 19.153E h= 0.0 km
erh= 1.1km erz= 420km
nr= 11 gap=114 rms=0.34
Locality: Ósagárd
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	12.2	128	Pg	10:05:29.99	0.12
			Sg	05:31.26	-0.31
BUD	42.7	193	Sg	10:05:40.76	-0.51
A336	43.3	345	Pg	10:05:35.29	-0.13
			Sg	05:41.37	-0.08
PSZ	55.9	83	Pg	10:05:37.95	0.28
			Sg	05:45.46	0.01
CSKK	86.8	231	Pg	10:05:43.72	0.54
			Sg	05:54.59	-0.67
KECS	121.1	55	ePg	10:05:49.40	0.09
			eSg	06:05.50	-0.68

925.

2019-10-14 time: 20:25:01.67 UTC ML= 1.1
lat: 45.876N lon: 16.018E h= 7.0 km
erh= 1.5km erz= 1.1km
nr= 6 gap=247 rms=0.13
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
PTJ	5.4	300	Pg	20:25:03.25	0.01
			Sg	25:04.45	-0.02
CRES	44.0	263	Pg	20:25:09.70	0.08
			Sg	25:15.53	-0.29
KOGS	66.1	16	Sg	20:25:22.66	-0.13
GROS	76.3	328	Sg	20:25:26.20	0.19

926.

2019-10-15 time: 7:57:45.98 UTC ML= 1.5
lat: 47.167N lon: 17.747E h= 0.0 km
erh= 4.9km erz= 424km
nr= 8 gap=253 rms=0.60
Locality: Herend
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	24.0	65	Pg	7:57:51.01	0.75
			Sg	57:53.68	0.07
CSKK	44.5	61	Pg	7:57:54.62	0.69
			Sg	57:59.34	-0.79
PKSG	54.7	63	Sg	7:58:02.26	-1.10
KOVH	123.0	167	Pg	7:58:08.24	0.30
MORH	126.1	147	Pg	7:58:08.13	-0.37
PKSM	126.3	147	Pg	7:58:08.01	-0.53

Földrengés paraméterek

927.

2019-10-15 time: 8:48:09.04 UTC ML= 1.2
lat: 47.206N lon: 18.299E h= 0.0 km
erh= 1.4km erz= 2.9km
nr= 10 gap=110 rms=0.41
Locality: Székesfehérvár
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	17.7	350	Pg	8:48:12.51	0.31
			Sg	48:14.38	-0.29
PKST	20.9	286	Pg	8:48:12.72	-0.06
			Sg	48:15.49	-0.20
PKSG	21.8	19	Pg	8:48:13.27	0.34
			Sg	48:16.39	0.43
PKSM	113.6	167	Sg	8:48:45.46	0.31
KOVH	125.2	187	Sg	8:48:48.58	-0.26
A336	125.7	25	Sg	8:48:47.83	-1.16
PSZ	143.8	57	Sn	8:48:52.61	-0.87

928.

2019-10-15 time: 9:41:32.60 UTC ML= 0.8
lat: 47.231N lon: 18.247E h= 0.0 km
erh= 2.9km erz= 372km
nr= 6 gap=249 rms=0.23
Locality: Iszka-szentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	14.7	4	Pg	9:41:35.06	-0.16
			Sg	41:37.08	-0.19
PKST	16.4	281	Pg	9:41:35.77	0.24
			Sg	41:37.58	-0.23
PKSG	20.9	31	Pg	9:41:36.27	-0.06
			Sg	41:39.75	0.51

929.

2019-10-15 time: 9:42:26.07 UTC ML= 1.4
lat: 47.973N lon: 20.049E h= 0.0 km
erh= 3.4km erz= 713km
nr= 5 gap=174 rms=0.32
Locality: Mátraballa
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	13.1	242	Pg	9:42:28.57	0.17
			Sg	42:30.14	-0.08
KECS	65.3	30	Sg	9:42:47.36	0.53
A336	83.4	290	Sg	9:42:52.24	-0.34
ABAH	95.6	68	Sg	9:42:56.02	-0.43

930.

2019-10-15 time: 9:45:58.66 UTC ML= 1.3
lat: 48.370N lon: 19.820E h= 0.0 km
erh= ---km erz= ---km
nr= 4 gap=180 rms=0.14
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	50.5	174	Pg	9:46:07.85	0.18
			Sg	46:14.47	-0.23
KECS	50.9	76	Pg	9:46:07.70	-0.04
A336	62.8	256	Sg	9:46:18.55	-0.05

Földrengés paraméterek

931.

2019-10-16 time: 7:05:52.42 UTC ML= 1.5
lat: 47.341N lon: 18.434E h= 0.0 km
erh= 2.3km erz= 545km
nr= 8 gap=203 rms=0.40
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	6.5	330	PgU	7:05:53.59	0.02
			Sg	05:53.84	-0.64
CSKK	13.3	280	Pg	7:05:55.09	0.30
			Sg	05:56.64	0.00
PKST	31.5	253	Pg	7:05:58.59	0.54
			Sg	06:02.12	-0.33
MORH	126.2	173	Sg	7:06:32.31	-0.21
PKSM	126.6	173	Sg	7:06:31.89	-0.76

932.

2019-10-16 time: 8:25:16.80 UTC ML= 1.8
lat: 47.307N lon: 18.450E h= 0.0 km
erh= 2.4km erz= 561km
nr= 7 gap=199 rms=0.39
Locality: Pátka
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	10.4	334	Pg	8:25:18.84	0.17
			Sg	25:19.64	-0.48
CSKK	15.6	293	Pg	8:25:20.09	0.49
			Sg	25:21.49	-0.29
PKST	31.9	260	Sg	8:25:26.50	-0.45
MORH	122.2	173	Sg	8:25:55.97	0.31
PKSM	122.6	173	Sg	8:25:55.35	-0.44

933.

2019-10-16 time: 8:37:36.19 UTC ML= 1.5
lat: 46.136N lon: 18.044E h= 0.0 km
erh= 0.7km erz= 107km
nr= 7 gap=265 rms=0.07
Locality: Hetvehely
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	6.8	141	Pg	8:37:37.30	-0.10
			Sg	37:38.41	0.06
PKSM	46.9	80	Pg	8:37:44.66	0.10
			Sg	37:51.01	-0.08
MORH	47.2	79	Pg	8:37:44.66	0.04
			Sg	37:51.16	-0.03
PKB5	73.7	46	Pg	8:37:49.35	-0.01

934.

2019-10-16 time: 8:53:04.65 UTC ML= 1.0
lat: 45.914N lon: 18.347E h= 0.0 km
erh= 2.1km erz= 419km
nr= 8 gap=215 rms=0.31
Locality: Vokány
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSV	7.8	249	Pg	8:53:05.98	-0.06
			Sg	53:06.80	-0.34
KOVH	27.2	315	Pg	8:53:10.19	0.68
			Sg	53:13.02	-0.29
PKSM	40.2	35	PgU	8:53:11.69	-0.14
			Sg	53:17.66	0.22
MORH	40.7	34	PgU	8:53:11.72	-0.20
			Sg	53:17.74	0.15

Hypocenter Parameters

935.

2019-10-16 time: 9:01:46.66 UTC ML= 1.3
lat: 48.548N lon: 20.745E h= 0.0 km
erh= 1.8km erz= 475km
nr= 7 gap=107 rms=0.31
Locality: Komjáti
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	20.5	249	Pg	9:01:50.17	-0.15
			Sg	01:53.09	-0.08
ABAH	46.1	127	Pg	9:01:54.95	0.06
			Sg	02:01.40	0.09
PSZ	94.3	222	Pg	9:02:03.57	0.07
NIE	101.9	342	Pg	9:02:05.28	0.43
STHS	103.2	21	ePg	9:02:04.30	-0.79

936.

2019-10-16 time: 9:59:49.70 UTC ML= 1.7
lat: 46.977N lon: 22.318E h= 0.0 km
erh= 2.2km erz= 2.5km
nr= 22 gap= 99 rms=0.86
Locality: Romania
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
DRGR	36.4	125	Pg	9:59:56.70	0.50
			Sg	10:00:01.54	0.28
BORR	42.4	287	PgC	9:59:58.17	0.90
			Sg	10:00:04.70	1.53
MARR	69.7	119	PgD	9:60:02.55	0.41
			Sg	60:11.10	-0.75
SIRR	93.6	213	PgD	9:60:07.04	0.62
			Sg	60:18.20	-1.26
CJR	102.0	107	PgC	9:60:08.50	0.59
			Sg	60:21.60	-0.51
TRPA	129.3	7	Pg	9:60:11.83	-0.96
			Sg	60:26.51	-4.29*
SURR	136.8	186	PnC	9:60:13.89	0.10
			Sn	60:30.60	-1.97
BZS	160.6	200	Pn	9:60:16.74	-0.02
			Sn	60:36.93	-0.93
GZR	179.6	169	PnD	9:60:19.95	0.83
			Sn	60:41.70	-0.37
LOT	203.6	147	PnC	9:60:23.43	1.31
			Sn	60:47.20	-0.20
PSZ	210.6	300	Pn	9:60:21.78	-1.22
			Sn	60:47.95	-1.02

937.

2019-10-16 time: 10:43:08.98 UTC ML= 1.0
lat: 47.049N lon: 18.354E h= 0.0 km
erh= 7.7km erz= ***km
nr= 9 gap=162 rms=1.28
Locality: Tác
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	33.7	314	Pg	10:43:16.53	1.53
			Sg	43:19.59	-0.10
CSKK	35.7	349	Pg	10:43:15.19	-0.16
			Sg	43:17.23	-3.09
PKSG	38.3	4	Pg	10:43:16.98	1.17
			Sg	43:20.27	-0.87
MORH	95.2	166	Sg	10:43:39.56	0.32
PKSM	95.6	167	Sg	10:43:39.12	-0.24
KOVH	108.5	190	Sg	10:43:41.27	-2.20

Hypocenter Parameters

938.

2019-10-17 time: 8:36:42.37 UTC ML= 1.3
lat: 46.178N lon: 18.292E h= 0.0 km
erh= 1.3km erz= 237km
nr= 7 gap=205 rms=0.16
Locality: Zobákpusztá
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	17.8	236	Pg	8:36:45.56	0.00
			Sg	36:47.97	-0.08
PKSM	27.2	82	Pg	8:36:47.42	0.18
			Sg	36:51.25	0.21
MORH	27.5	81	Pg	8:36:47.17	-0.12
			Sg	36:50.77	-0.36
PKSV	32.3	185	Sg	8:36:52.66	0.03

939.

2019-10-17 time: 22:17:03.62 UTC ML= 0.8
lat: 47.452N lon: 18.350E h= 7.1 km
erh= 1.5km erz= 1.0km
nr= 10 gap=160 rms=0.30
Locality: Oroszlány
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSG	7.4	156	PgD	22:17:05.34	-0.12
			Sg	17:06.80	-0.09
CSKK	12.0	214	PgD	22:17:06.01	-0.11
			Sg	17:08.06	0.00
PKST	32.1	228	Pg	22:17:09.47	-0.03
			Sg	17:14.14	0.06
SRO	40.2	356	Sg	22:17:16.67	0.07
MORH	139.3	171	Sn	22:17:44.67	-0.76
PKSM	139.7	171	Pn	22:17:28.02	0.86
			Sn	17:45.56	0.04

940.

2019-10-18 time: 8:43:18.36 UTC ML= 1.7
lat: 48.577N lon: 20.768E h= 0.0 km
erh= 1.4km erz= 373km
nr= 6 gap=137 rms=0.23
Locality: Tornanádaska
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.4	243	Pg	8:43:22.77	0.24
			Sg	43:25.35	-0.43
ABAH	46.8	132	Pg	8:43:26.94	0.22
			Sg	43:33.17	-0.07
PSZ	97.9	222	Sg	8:43:49.22	-0.25
STHS	99.6	20	Pg	8:43:36.05	-0.10

941.

2019-10-18 time: 9:16:52.86 UTC ML= 0.8
lat: 47.244N lon: 18.245E h= 0.0 km
erh= 1.8km erz= 223km
nr= 6 gap=242 rms=0.14
Locality: Iszkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	13.3	5	Pg	9:16:55.27	0.03
			Sg	16:56.84	-0.25
PKST	16.1	276	Pg	9:16:55.83	0.10
			Sg	16:57.85	-0.11
PKSG	19.8	34	Pg	9:16:56.31	-0.08
			Sg	16:59.45	0.30

Földrengés paraméterek

942.

2019-10-18 time: 9:59:43.10 UTC ML= 1.6
lat: 47.534N lon: 18.530E h= 0.0 km
erh= 2.6km erz= 186km
nr= 8 gap=189 rms=0.13
Locality: Nagyegyháza
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	19.0	214	Pg	9:59:46.51	0.01
			Sg	59:49.17	0.03
CSKK	27.8	227	PgU	9:59:48.12	0.05
			Sg	59:51.80	-0.15
PKST	48.3	231	Pg	9:59:51.90	0.17
			Sg	59:57.92	-0.55
A336	85.3	24	Pg	9:59:58.21	-0.12
			Sg	10:00:10.28	0.08

943.

2019-10-21 time: 8:49:12.96 UTC ML= 1.5
lat: 47.734N lon: 18.965E h= 0.0 km
erh= 4.9km erz= ***km
nr= 7 gap=192 rms=0.75
Locality: Pilisszentlászló
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	24.6	75	PgU	8:49:18.04	0.70
			Sg	49:20.33	-0.44
BUD	28.2	171	Sg	8:49:21.36	-0.56
A336	55.5	3	Pg	8:49:23.46	0.58
			Sg	49:29.43	-1.18
PSZ	72.6	74	Pg	8:49:26.29	0.37
			Sg	49:34.55	-1.47

944.

2019-10-21 time: 8:52:03.64 UTC ML= 1.8
lat: 48.567N lon: 20.763E h= 0.0 km
erh= 6.4km erz= 795km
nr= 5 gap=245 rms=0.36
Locality: Tornanádaska
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	22.5	246	Pg	8:52:07.68	0.02
			Sg	52:10.20	-0.59
ABAH	46.3	130	Pg	8:52:12.23	0.31
			Sg	52:17.86	-0.51
PSZ	96.7	222	Sg	8:52:34.74	0.35

945.

2019-10-21 time: 9:13:22.93 UTC ML= 1.3
lat: 46.157N lon: 18.302E h= 0.0 km
erh= 1.2km erz= 233km
nr= 7 gap=192 rms=0.16
Locality: Vasas
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	17.4	244	Pg	9:13:25.79	-0.25
			Sg	13:28.63	0.16
PKSM	26.9	77	Pg	9:13:27.88	0.15
			Sg	13:31.21	-0.26
MORH	27.2	76	Pg	9:13:27.84	0.06
PKSV	30.1	187	Pg	9:13:28.33	0.02
			Sg	13:32.58	0.08

Földrengés paraméterek

946.

2019-10-21 time: 9:14:10.96 UTC ML= 1.1
lat: 46.111N lon: 18.062E h= 0.0 km
erh= 3.7km erz= 495km
nr= 7 gap=286 rms=0.32
Locality: Bakonya
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	3.9	131	Pg	9:14:11.22	-0.43
			Sg	14:12.30	0.11
PKSV	28.8	149	Sg	9:14:20.43	0.31
PKSM	46.1	76	Pg	9:14:19.14	-0.06
			Sg	14:25.27	-0.35
MORH	46.4	75	Pg	9:14:19.74	0.49
			Sg	14:25.68	-0.04

947.

2019-10-22 time: 7:48:41.18 UTC ML= 1.2
lat: 45.862N lon: 18.404E h= 0.0 km
erh= 2.0km erz= 305km
nr= 8 gap=258 rms=0.22
Locality: Nagyharsány
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSV	12.2	284	Pg	7:48:43.26	-0.09
			Sg	48:44.02	-1.03
KOVH	34.4	317	Pg	7:48:47.60	0.26
			Sg	48:52.06	-0.07
PKSM	43.0	25	PgU	7:48:48.94	0.09
			Sg	48:54.93	0.09
MORH	43.4	25	Pg	7:48:48.97	0.03
			Sg	48:54.67	-0.32

948.

2019-10-22 time: 9:04:00.12 UTC ML= 1.6
lat: 47.985N lon: 20.412E h= 0.0 km
erh= 4.8km erz= 894km
nr= 6 gap=199 rms=0.53
Locality: Felsőtárkány
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	39.4	259	Pg	9:04:07.30	0.15
			Sg	04:11.79	-0.84
KECS	55.7	6	Pg	9:04:10.18	0.11
			Sg	04:17.73	-0.10
ABAH	70.6	61	Pg	9:04:13.36	0.63
			Sg	04:21.51	-1.06

949.

2019-10-22 time: 9:47:51.87 UTC ML= 2.2
lat: 48.211N lon: 21.231E h= 0.0 km
erh= 2.3km erz= 601km
nr= 7 gap=157 rms=0.40
Locality: Rátka
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	9.5	4	Pg	9:47:53.59	0.02
			Sg	47:54.85	-0.04
KECS	63.0	299	Pg	9:48:03.50	0.38
			Sg	48:11.47	-0.43
TRPA	97.7	95	Pg	9:48:09.72	0.40
			Sg	48:22.10	-0.83
PSZ	104.8	252	Sg	9:48:24.70	-0.49

196

Hypocenter Parameters

950.

2019-10-22 time: 10:04:19.88 UTC ML= 1.2
lat: 47.102N lon: 17.963E h= 0.0 km
erh= 2.7km erz= 364km
nr= 7 gap=225 rms=0.24
Locality: Kádárta
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	18.3	17	Pg	10:04:23.03	-0.12
			Sg	04:25.50	-0.19
CSKK	36.8	38	Sg	10:04:31.98	0.41
PKSG	45.7	45	Pg	10:04:28.07	0.03
			Sg	04:34.25	-0.16
PKSM	111.8	152	Pg	10:04:40.12	0.28
			Sg	04:54.96	-0.45

951.

2019-10-23 time: 4:34:42.12 UTC ML= 1.6
lat: 48.167N lon: 19.052E h= 11.3 km
erh= 1.9km erz= 1.5km
nr= 14 gap=100 rms=0.53
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr mn sec	res
A336	8.3	332	PgU	4:34:44.75	0.12
			Sg	34:45.96	-0.62
PENC	45.3	158	Sg	4:34:57.08	0.13
A338	54.8	252	Pg	4:34:52.40	0.29
			Sg	34:59.52	-0.38
SRO	67.7	234	Pg	4:34:54.53	0.14
			Sg	35:03.41	-0.54
PSZ	68.7	114	Pg	4:34:55.12	0.57
			Sg	35:03.56	-0.68
PKSG	99.4	210	P*	4:35:00.09	0.15
CSKK	107.3	214	Sn	4:35:15.49	-0.41
KECS	112.0	72	Sn	4:35:15.76	-1.17
MODS	133.7	280	ePn	4:35:06.10	1.71
			eSn	35:21.40	-0.36

952.

2019-10-23 time: 9:50:11.67 UTC ML= 1.7
lat: 48.582N lon: 20.767E h= 0.0 km
erh= 1.4km erz= 390km
nr= 8 gap=152 rms=0.28
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.5	242	Pg	9:50:15.98	0.11
			Sg	50:18.92	-0.22
ABAH	47.3	132	Pg	9:50:20.18	0.07
			Sg	50:26.30	-0.39
PSZ	98.2	221	Pg	9:50:29.49	0.28
			Sg	50:42.66	-0.22
NIE	98.8	340	Pg	9:50:29.65	0.33
LANS	114.4	304	Pg	9:50:31.65	-0.44

953.

2019-10-24 time: 8:25:30.90 UTC ML= 1.8
lat: 47.676N lon: 18.519E h= 0.0 km
erh= 1.6km erz= 5.1km
nr= 24 gap= 75 rms=0.84
Locality: Héreg
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
SRO	21.7	315	Pg	8:25:34.72	-0.06
			Sg	25:38.21	0.40

Hypocenter Parameters

PKSG	33.0	197	Pg	8:25:37.06	0.26
			Sg	25:42.95	1.55
CSKK	39.9	209	Pg	8:25:38.18	0.16
			Sg	25:42.29	-1.28
BUD	43.6	119	Sg	8:25:43.30	-1.45
PENC	58.6	77	Pg	8:25:42.34	0.98
			Sg	25:50.25	0.73
PKST	59.0	218	Pg	8:25:42.02	0.58
			Sg	25:48.81	-0.86
A336	71.6	30	Sg	8:25:52.74	-0.91
PSZ	106.5	75	Pg	8:25:50.52	0.60
			Sg	26:04.58	-0.17
ZST	120.6	299	Sg	8:26:07.68	-1.57
MODS	120.8	310	ePg	8:25:52.00	-0.48
			eSg	26:06.60	-2.71
MORH	162.6	177	Pn	8:25:57.55	-0.66
			Sn	26:16.36	-3.15
PKSM	163.0	177	Sn	8:26:16.25	-3.36

954.

2019-10-24 time: 14:30:42.12 UTC ML= 1.9
lat: 47.137N lon: 19.305E h= 0.0 km
erh= 5.7km erz= 961km
nr= 10 gap=158 rms=0.75
Locality: Örkény
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKS7	14.8	228	Pg	14:30:44.80	0.03
			Sg	30:46.40	-0.43
PKB2	51.6	185	Pg	14:30:52.46	1.12
PENC	72.7	359	Pg	14:30:56.25	1.14
			Sg	31:04.89	-0.34
PKB5	74.3	216	Pg	14:30:55.96	0.58
PSZ	97.6	27	Pg	14:30:59.05	-0.50
			Sg	31:12.32	-0.82
MORH	114.2	206	Pg	14:31:01.70	-0.81
PKSM	114.7	206	Pg	14:31:01.85	-0.75

955.

2019-10-25 time: 9:07:46.98 UTC ML= 1.5
lat: 47.415N lon: 18.712E h= 0.0 km
erh= 5.2km erz= 5.4km
nr= 15 gap=110 rms=1.36
Locality: Pusztazámor
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	24.4	264	Pg	9:07:51.74	0.41
BUD	24.7	72	Pg	9:07:51.02	-0.37
			Sg	07:54.75	-0.08
CSKK	34.6	260	Pg	9:07:53.64	0.49
			Sg	07:58.40	0.43
PKST	54.1	251	Pg	9:07:56.94	0.31
			Sg	08:05.49	1.32
PENC	59.8	46	Sg	9:08:06.44	0.45
A336	93.5	13	Sg	9:08:13.30	-3.39
PSZ	105.0	58	Pg	9:08:06.36	0.64
			Sg	08:19.28	-1.06
PKSM	133.9	182	Sn	9:08:25.52	-3.69
MODS	151.2	315	eSn	9:08:30.50	-2.56
KECS	177.9	48	ePn	9:08:17.80	1.60
			eSn	08:43.10	4.11

956.

2019-10-25 time: 9:36:38.22 UTC ML= 0.8
lat: 47.222N lon: 18.286E h= 0.0 km
erh= 2.7km erz= 728km
nr= 7 gap=143 rms=0.49
Locality: Iszkaszentgyörgy
Comments: probably explosion

Földrengés paraméterek

sta	dist	azm	phase	hr mn sec	res
CSKK	15.8	353	Pg	9:36:40.39	-0.64
			Sg	36:42.78	-0.45
PKST	19.5	282	Pg	9:36:41.91	0.21
			Sg	36:44.71	0.30
PKSG	20.4	23	Pg	9:36:42.37	0.50
			Sg	36:45.27	0.56
MORH	115.2	166	Sg	9:37:14.18	-0.66

957.

2019-10-26 time: 2:08:59.09 UTC ML= 2.4
lat: 47.797N lon: 16.165E h= 3.8 km
erh= 1.7km erz= 1.9km
nr= 30 gap= 56 rms=0.75
Locality: Austria
Comments:

sta	dist	azm	phase	hr mn sec	res
RONA	14.6	138	Pg	2:09:02.23	0.44
			Sg	09:04.28	0.39
CONA	27.0	303	Pg	2:09:04.37	0.40
			Sg	09:08.05	0.27
SOP	32.0	113	Pg	2:09:05.13	0.27
			Sg	09:08.88	-0.47
ARSA	77.6	219	Pg	2:09:12.06	-0.91
			Sg	09:21.56	-2.23
ZST	82.9	58	Pg	2:09:13.82	-0.09
MODS	104.8	52	ePg	2:09:17.50	-0.32
			eSg	09:31.60	-0.83
KRUC	141.7	7	Pn	2:09:22.76	-0.55
MOA	142.4	272	Pn	2:09:23.59	0.21
			Sn	09:40.90	-1.43
KOGS	150.0	178	Pn	2:09:25.27	0.93
SOKA	151.1	215	Pn	2:09:23.87	-0.60
			Sn	09:40.52	-3.74*
PERS	151.5	212	Pn	2:09:24.55	0.02
GROS	156.8	199	Pn	2:09:25.58	0.40
VRAC	171.1	11	Pn	2:09:26.38	-0.59
TREC	174.0	343	ePn	2:09:27.70	0.37
			eSn	09:48.50	-0.85
OBKA	188.5	221	Pn	2:09:29.44	0.31
BIOA	189.9	266	Pn	2:09:30.94	1.63
			Sn	09:53.55	0.67
KBA	227.3	249	Pn	2:09:37.24	3.27
			Sn	10:02.23	1.05
ZVC	233.5	321	ePn	2:09:35.50	0.75
			eSn	10:03.00	0.44
KHC	242.1	308	eSn	2:10:06.70	2.22
PRU	271.3	334	eSn	2:10:14.90	3.95*

958.

2019-10-26 time: 7:06:15.87 UTC ML= 2.0
lat: 48.402N lon: 18.653E h= 0.0 km
erh= 2.8km erz= 3.8km
nr= 21 gap=118 rms=1.26
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
A336	31.7	126	Pg	7:06:23.10	1.56
			Sg	06:26.36	0.40
A338	48.4	208	Sg	7:06:32.18	0.91
A337	66.4	255	Sg	7:06:37.88	0.91
PENC	82.5	145	Sg	7:06:42.13	0.04
SMOL	91.5	278	eSg	7:06:41.60	-3.34
MODS	102.0	268	ePg	7:06:35.10	1.02
			eSg	06:46.70	-1.59
LANS	102.6	36	Sg	7:06:47.65	-0.82
PSZ	106.8	120	Pg	7:06:35.72	0.77
			Sg	06:47.83	-2.00
PKSG	114.0	190	Sg	7:06:51.41	-0.69
ZST	117.3	259	eSg	7:06:51.80	-1.36
CSKK	119.1	194	Pg	7:06:37.42	0.27

Földrengés paraméterek

		Sg	06:53.20	-0.54	
PKST	135.2	200	Sn	7:06:56.91	-1.49
KECS	135.9	86	Sn	7:06:56.89	-1.66
RONA	192.3	246	Pn	7:06:49.37	2.49
			Sn	07:11.94	0.87
CONA	214.2	256	Pn	7:06:49.31	-0.31
			Sn	07:14.60	-1.34

959.

2019-10-27 time: 1:57:54.60 UTC ML= 1.2
lat: 45.764N lon: 18.021E h= 10.0 km
erh= 3.5km erz= 1.8km
nr= 16 gap=158 rms=0.65
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	22.7	52	PgD	1:57:59.54	0.51
			Sg	58:03.15	0.67
KOVH	36.6	10	PgD	1:58:01.23	-0.14
			Sg	58:06.06	-0.59
PKSM	69.2	44	Pg	1:58:06.99	-0.10
			Sg	58:16.13	-0.70
MORH	69.7	44	Pg	1:58:07.13	-0.04
			Sg	58:16.10	-0.88
PKB4	93.1	29	Pg	1:58:12.28	0.97
			Sg	58:21.95	-2.40
PKB5	107.6	31	Pn	1:58:14.38	0.61
			Sn	58:28.91	0.18
PKB1	128.1	28	Sn	1:58:33.44	0.17
BLY	130.5	210	Sn	1:58:33.06	-0.75
PKB2	138.3	43	Sn	1:58:34.06	-1.47
KOGS	156.6	299	Sn	1:58:39.51	-0.09

960.

2019-10-28 time: 8:13:03.72 UTC ML= 2.0
lat: 47.359N lon: 18.406E h= 0.0 km
erh= 2.2km erz= 4.3km
nr= 14 gap=103 rms=0.88
Locality: Gánt
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	3.9	343	PgU	8:13:04.72	0.31
			Sg	13:05.15	0.20
CSKK	11.0	273	Pg	8:13:06.11	0.43
			Sg	13:07.04	-0.17
PKST	30.2	248	Pg	8:13:09.81	0.70
			Sg	13:12.94	-0.37
PKB5	88.5	164	Sg	8:13:33.12	1.26
PKB4	97.0	171	Sg	8:13:35.33	0.77
A336	106.9	25	Sg	8:13:37.82	0.11
PSZ	128.0	61	Sg	8:13:43.02	-1.40
MORH	128.3	172	Sg	8:13:42.56	-1.95
PKSM	128.7	172	Sg	8:13:42.46	-2.18
KOVH	143.1	189	Sn	8:13:47.75	-0.26
CONA	201.4	288	Sn	8:13:59.35	-1.58

961.

2019-10-28 time: 10:33:20.21 UTC ML= 1.1
lat: 47.194N lon: 18.286E h= 0.0 km
erh= 4.0km erz= 447km
nr= 5 gap=271 rms=0.20
Locality: Sárkeszi
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	18.9	354	Pg	10:33:23.86	0.28
			Sg	33:26.12	-0.09
PKST	20.4	291	Pg	10:33:23.67	-0.18
			Sg	33:26.80	0.11
PKSG	23.3	20	Sg	10:33:27.42	-0.20

Hypocenter Parameters

962.

2019-10-28 time: 12:27:58.35 UTC ML= 1.4
lat: 46.117N lon: 18.075E h= 0.0 km
erh= 1.6km erz= 278km
nr= 10 gap=245 rms=0.22
Locality: Abaliget
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	3.7	149	Pg	12:27:58.85	-0.15
			Sg	28:00.02	0.50
PKSV	28.8	152	Sg	12:28:07.36	-0.15
PKSM	45.0	76	Pg	12:28:06.25	-0.13
			Sg	28:12.61	-0.04
MORH	45.3	76	Pg	12:28:06.31	-0.13
			Sg	28:12.78	0.03
PKB4	58.7	44	Pg	12:28:09.21	0.39
PKB5	73.6	44	Sg	12:28:21.55	-0.18
PKB1	92.4	37	Sg	12:28:27.84	0.11

963.

2019-10-29 time: 7:34:51.95 UTC ML= 1.0
lat: 47.293N lon: 18.322E h= 0.0 km
erh= 1.6km erz= 251km
nr= 6 gap=235 rms=0.15
Locality: Magyaralmás
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	9.1	329	Pg	7:34:53.78	0.21
			Sg	34:54.61	-0.22
PKSG	12.1	25	Pg	7:34:54.10	-0.02
			Sg	34:55.65	-0.17
PKST	22.1	260	Pg	7:34:55.81	-0.09
			Sg	34:59.17	0.20

964.

2019-10-29 time: 9:30:14.93 UTC ML= 1.8
lat: 47.303N lon: 18.451E h= 0.0 km
erh= 1.8km erz= 4.0km
nr= 10 gap=115 rms=0.56
Locality: Pátka
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	10.9	335	Pg	9:30:16.69	-0.18
			Sg	30:17.10	-1.28
CSKK	15.9	295	Pg	9:30:18.23	0.46
			Sg	30:19.52	-0.46
PKST	31.9	261	Pg	9:30:20.93	0.30
			Sg	30:24.76	-0.32
MORH	121.8	173	Sg	9:30:53.47	-0.17
PKSM	122.2	173	Sg	9:30:53.13	-0.64
PSZ	128.3	58	Sg	9:30:56.32	0.62
KOVH	137.7	191	Sn	9:30:59.13	1.12

965.

2019-10-29 time: 10:08:07.71 UTC ML= 1.4
lat: 48.718N lon: 19.941E h= 0.0 km
erh= 2.3km erz= 661km
nr= 7 gap=147 rms=0.45
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	48.0	123	Pg	10:08:16.27	0.00
			Sg	08:22.77	-0.18
NIE	82.5	19	Sg	10:08:33.27	-0.67
A336	88.1	232	Sg	10:08:35.34	-0.37

Hypocenter Parameters

PSZ 89.0 182 Pg 10:08:24.36 0.75
Sg 08:35.66 -0.35
STHS 122.9 51 Sg 10:08:46.96 0.19

966.

2019-10-29 time: 11:12:24.25 UTC ML= 1.5
lat: 48.550N lon: 20.770E h= 0.0 km
erh= 2.4km erz= 829km
nr= 10 gap=109 rms=0.65
Locality: Komjáti
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	22.2	251	Pg	11:12:28.19	-0.03
			Sg	12:31.58	0.26
ABAH	44.8	129	Pg	11:12:31.99	-0.26
			Sg	12:39.27	0.78
PSZ	95.7	223	Pg	11:12:41.22	-0.12
			Sg	12:54.70	0.04
NIE	102.3	341	Pg	11:12:43.11	0.60
			Sg	12:57.52	0.77
STHS	102.5	20	ePg	11:12:41.00	-1.55
			eSg	12:54.50	-2.32

967.

2019-10-30 time: 10:31:01.49 UTC ML= 1.9
lat: 47.714N lon: 18.522E h= 0.0 km
erh= 1.4km erz= 576km
nr= 15 gap= 91 rms=0.50
Locality: Lábatlan
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
SRO	19.1	305	Pg	10:31:05.14	0.24
			Sg	31:08.95	1.38
PKSG	37.2	195	Sg	10:31:13.55	0.24
CSKK	43.7	207	Pg	10:31:09.05	-0.25
			Sg	31:14.77	-0.62
PKST	62.5	216	Pg	10:31:12.69	0.03
			Sg	31:21.47	0.10
A336	67.8	32	Sg	10:31:22.66	-0.39
EGYH	95.4	250	Pg	10:31:19.14	0.60
			Sg	31:31.45	-0.38
PSZ	105.3	78	Sg	10:31:34.54	-0.42
PKB1	105.4	169	Pg	10:31:20.64	0.32
MODS	118.2	308	ePg	10:31:22.40	-0.21
			eSg	31:37.10	-1.98*
ZST	118.8	297	eSg	10:31:38.00	-1.24

968.

2019-10-30 time: 12:18:21.13 UTC ML= 2.5
lat: 48.234N lon: 21.243E h= 0.0 km
erh= 3.7km erz= 2.3km
nr= 8 gap=253 rms=0.42
Locality: Tállya
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	6.9	358	PgU	12:18:22.31	-0.05
			Sg	18:22.95	-0.36
KECS	62.6	296	Pg	12:18:32.43	0.13
			Sg	18:41.09	0.07
PSZ	106.4	251	Sg	12:18:54.60	-0.36
NIE	148.4	333	Sn	12:19:04.07	-2.51
LANS	165.7	308	Sn	12:19:11.14	0.71
A336	166.7	270	Sn	12:19:11.09	0.45

Földrengés paraméterek

969.

2019-10-30 time: 19:49:53.38 UTC ML= 1.4
lat: 47.824N lon: 16.600E h= 2.0 km
erh= 6.6km erz= 5.4km
nr= 9 gap=233 rms=0.76
Locality: Austria
Comments:

sta	dist	azm	phase	hr mn sec	res
SOP	15.9	191	Pg	19:49:56.86	0.62
			Sg	49:58.30	-0.18
RONA	26.6	239	Pg	19:49:57.97	-0.18
			Sg	50:00.42	-1.45
EGYH	71.2	129	Sg	19:50:16.19	0.18
CSKK	135.0	112	Sn	19:50:34.69	-0.71
SOKA	174.1	223	Pn	19:50:22.29	0.42
OBKA	213.4	227	Pn	19:50:29.85	3.08

970.

2019-10-31 time: 9:34:13.46 UTC ML= 1.5
lat: 47.078N lon: 17.855E h= 0.0 km
erh= 5.7km erz= 817km
nr= 9 gap=224 rms=0.61
Locality: Nemesvámos
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	24.3	34	PgU	9:34:17.14	-0.66
			Sg	34:20.43	-0.76
CSKK	44.2	44	Pg	9:34:22.01	0.66
			Sg	34:27.36	-0.14
PKSG	53.5	49	Sg	9:34:30.65	0.18
KOVH	111.6	170	Sg	9:34:48.42	-0.51
MORH	113.3	148	Sg	9:34:49.08	-0.38
PKSM	113.5	148	Pg	9:34:34.70	0.96
			Sg	34:49.42	-0.13

971.

2019-10-31 time: 9:58:28.82 UTC ML= 1.6
lat: 48.181N lon: 19.840E h= 0.0 km
erh= 2.2km erz= 651km
nr= 7 gap=140 rms=0.45
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	29.5	172	Pg	9:58:34.15	0.07
			Sg	58:38.54	0.35
KECS	58.5	55	Pg	9:58:39.46	0.18
			Sg	58:47.18	-0.25
A336	62.8	275	Pg	9:58:40.46	0.43
			Sg	58:47.80	-0.97
ABAH	104.8	83	Sg	9:59:01.33	-0.80

972.

2019-10-31 time: 10:16:58.28 UTC ML= 1.6
lat: 47.926N lon: 19.395E h= 0.0 km
erh= 2.5km erz= 4.8km
nr= 9 gap=118 rms=0.72
Locality: Becske
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	17.3	209	Pg	10:17:01.79	0.43
			Sg	17:04.26	0.49
PSZ	37.4	91	PgU	10:17:05.42	0.46
			Sg	17:10.16	0.00
A336	45.1	319	Sg	10:17:12.27	-0.36
BUD	56.5	210	Sg	10:17:15.91	-0.33
PKSG	96.0	232	Sg	10:17:27.23	-1.56

Földrengés paraméterek

KECS 102.1 53 Sg 10:17:29.35 -1.38
MODS 165.2 288 eSn 10:17:48.30 0.83

973.

2019-10-31 time: 10:18:55.84 UTC ML= 1.0
lat: 46.149N lon: 18.294E h= 0.0 km
erh= 1.9km erz= 480km
nr= 9 gap=143 rms=0.36
Locality: Vasas
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KOVH	16.5	246	Pg	10:18:58.61			-0.17
			Sg	19:01.40			0.32
PKSM	27.7	75	Pg	10:19:00.60			-0.18
			Sg	19:05.30			0.66
MORH	28.0	75	Pg	10:19:00.36			-0.48
			Sg	19:04.64			-0.10
PKSV	29.1	186	Pg	10:19:00.97			-0.07
			Sg	19:05.76			0.66
PKB1	80.3	28	Sg	10:19:21.81			0.44

974.

2019-11-02 time: 9:34:27.07 UTC ML= 1.1
lat: 46.187N lon: 18.288E h= 0.0 km
erh= 1.0km erz= 236km
nr= 9 gap=162 rms=0.18
Locality: Zobákpusztá
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KOVH	18.2	233	PgU	9:34:30.32			-0.01
			Sg	34:33.04			0.18
PKSM	27.4	84	Pg	9:34:32.15			0.18
			Sg	34:35.86			0.07
MORH	27.7	83	Pg	9:34:32.20			0.18
			Sg	34:35.61			-0.26
PKSV	33.3	185	Pg	9:34:32.91			-0.11
			Sg	34:37.44			-0.21
PKB4	42.1	35	Sg	9:34:40.12			-0.35

975.

2019-11-04 time: 9:15:07.10 UTC ML= 1.6
lat: 48.576N lon: 20.760E h= 0.0 km
erh= 2.0km erz= 556km
nr= 8 gap=138 rms=0.40
Locality: Tornanádaska
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	22.7	243	Pg	9:15:11.18			0.02
			Sg	15:14.26			-0.06
ABAH	47.2	131	Pg	9:15:15.38			-0.16
			Sg	15:22.16			0.04
PSZ	97.4	221	Pg	9:15:24.83			0.34
			Sg	15:36.99			-1.06
STHS	100.0	21	ePg	9:15:25.40			0.45
			eSg	15:37.80			-1.07

976.

2019-11-04 time: 9:48:12.19 UTC ML= 1.1
lat: 47.218N lon: 18.303E h= 0.0 km
erh= 1.8km erz= 507km
nr= 9 gap=148 rms=0.38
Locality: Moha
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
CSKK	16.5	349	Pg	9:48:15.19			0.06
			Sg	48:17.16			-0.26

200

Hypocenter Parameters

PKSG 20.5 19 Pg 9:48:15.77 -0.07
PKST 20.9 283 PgU 9:48:15.88 -0.03
Sg 48:18.78 -0.03
MORH 114.4 167 Pg 9:48:33.12 0.51
Sg 48:47.73 -0.82
PKSM 114.8 167 Pg 9:48:33.05 0.37
Sg 48:47.69 -0.98

977.

2019-11-05 time: 5:12:41.43 UTC ML= 1.2
lat: 48.095N lon: 20.431E h= 2.8 km
erh= 8.0km erz=26.5km
nr= 8 gap=128 rms=0.63
Locality: Szilvássvár
Comments:

sta	dist	azm	phase	hr	mn	sec	res
KECS	43.4	5	Pg	5:12:49.60			0.41
			Sg	12:53.67			-1.58
PSZ	44.5	244	Pg	5:12:49.83			0.43

978.

2019-11-05 time: 10:38:14.77 UTC ML= 1.7
lat: 48.350N lon: 19.865E h= 0.0 km
erh= 2.1km erz= 742km
nr= 9 gap=105 rms=0.55
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
PSZ	48.0	177	Pg	10:38:23.53			0.19
			Sg	38:29.93			-0.10
KECS	48.2	72	Pg	10:38:23.60			0.21
			Sg	38:29.57			-0.54
A336	65.6	259	Pg	10:38:27.22			0.74
			Sg	38:35.19			-0.43
PENC	75.9	215	Sg	10:38:37.87			-1.02
LANS	93.7	342	Pg	10:38:31.83			0.32
			Sg	38:43.40			-1.16

979.

2019-11-06 time: 9:26:28.54 UTC ML= 1.6
lat: 48.588N lon: 20.747E h= 0.0 km
erh= 1.5km erz= 500km
nr= 9 gap=151 rms=0.38
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KECS	22.6	239	Pg	9:26:32.74			0.16
			Sg	26:36.50			0.77
ABAH	48.8	132	Pg	9:26:37.31			0.05
			Sg	26:43.98			-0.08
NIE	97.7	341	Pg	9:26:46.20			0.22
			Sg	26:59.71			0.12
PSZ	97.8	220	Sg	9:26:59.55			-0.08
LANS	112.8	304	Pg	9:26:48.17			-0.51
			Sg	27:03.23			-1.17

980.

2019-11-06 time: 11:02:07.63 UTC ML= 1.0
lat: 46.129N lon: 18.077E h= 0.0 km
erh= 3.0km erz= 383km
nr= 6 gap=279 rms=0.25
Locality: Abaliget
Comments: probably explosion

sta	dist	azm	phase	hr	mn	sec	res
KOVH	4.9	159	PgU	11:02:08.49			0.00
			Sg	02:09.52			0.35

Hypocenter Parameters

PKSV 30.0 153 Sg 11:02:16.62 -0.54
PKSM 44.5 78 Pg 11:02:15.80 0.22
Sg 02:21.67 -0.11
MORH 44.8 78 Sg 11:02:21.65 -0.23

981.

2019-11-07 time: 10:47:41.12 UTC ML= 0.6
lat: 47.213N lon: 18.265E h= 0.0 km
erh= 2.3km erz= 292km
nr= 6 gap=261 rms=0.18
Locality: Iszkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	16.7	359	Pg	10:47:44.09	-0.01
			Sg	47:46.08	-0.34
PKST	18.2	286	Pg	10:47:44.22	-0.15
			Sg	47:47.18	0.27
PKSG	22.0	26	Pg	10:47:45.24	0.19
			Sg	47:48.10	-0.01

982.

2019-11-07 time: 11:12:13.29 UTC ML= 1.6
lat: 46.807N lon: 17.302E h= 0.0 km
erh= 2.6km erz= 812km
nr= 13 gap=164 rms=0.69
Locality: Keszthely
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	75.0	48	Pg	11:12:26.22	-0.45
			Sg	12:36.68	-0.43
KOGS	89.9	244	Sg	11:12:41.18	-0.69
CSKK	95.5	50	Pg	11:12:31.15	0.81
			Sg	12:44.61	0.98
KOVH	100.7	143	Pg	11:12:31.66	0.40
			Sg	12:44.75	-0.54
PKSG	105.1	52	Pg	11:12:32.00	-0.06
			Sg	12:46.13	-0.57
MORH	122.2	123	Pg	11:12:35.49	0.39
			Sg	12:50.77	-1.34
PKSM	122.2	123	Pg	11:12:35.79	0.68
			Sg	12:50.22	-1.91

983.

2019-11-07 time: 13:36:40.20 UTC ML= 1.4
lat: 48.480N lon: 20.777E h= 0.0 km
erh= 1.9km erz= 7.1km
nr= 9 gap=173 rms=0.45
Locality: Martonyi
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	21.6	271	Pg	13:36:43.85	-0.20
			Sg	36:46.90	-0.15
ABAH	39.9	121	Pg	13:36:47.59	0.27
			Sg	36:52.10	-0.78
PSZ	90.6	226	Pg	13:36:56.93	0.55
			Sg	37:09.08	0.09
LANS	121.7	308	Pg	13:37:02.13	0.20
			Sg	37:18.37	-0.51
A336	134.6	258	Sn	13:37:20.41	-2.19

984.

2019-11-08 time: 9:09:44.27 UTC ML= 1.7
lat: 48.568N lon: 20.743E h= 0.0 km
erh= 4.6km erz= ***km
nr= 9 gap=108 rms=1.14
Locality: Komjáti
Comments: probably explosion

Földrengés paraméterek

sta	dist	azm	phase	hr mn sec	res
KECS	21.2	244	Pg	9:09:48.37	0.31
			Sg	09:51.12	0.11
ABAH	47.6	129	Sg	9:09:59.01	-0.38
PSZ	95.8	221	Sg	9:10:14.59	-0.14
NIE	99.7	342	Pg	9:10:04.42	2.34
			Sg	10:14.13	-1.85
STHS	101.3	21	ePg	9:10:01.90	-0.46
LANS	113.8	305	ePg	9:10:04.00	-0.60
			eSg	10:18.80	-1.65

985.

2019-11-08 time: 9:47:16.41 UTC ML= 1.0
lat: 47.213N lon: 18.281E h= 0.0 km
erh= 1.0km erz= 269km
nr= 8 gap=143 rms=0.20
Locality: Iszkaszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
CSKK	16.8	355	Pg	9:47:19.23	-0.18
			Sg	47:21.76	0.01
PKST	19.3	285	PgU	9:47:19.84	-0.02
			Sg	47:22.83	0.28
PKSG	21.6	23	Pg	9:47:20.22	-0.04
			Sg	47:23.38	0.11
PKSM	114.6	166	Pg	9:47:37.00	0.12
			Sg	47:51.10	-1.74

986.

2019-11-08 time: 9:57:24.51 UTC ML= 2.3
lat: 48.178N lon: 21.133E h= 0.0 km
erh= 2.8km erz= 706km
nr= 6 gap=160 rms=0.41
Locality: Legyesbénye
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	15.3	31	PgU	9:57:27.73	0.49
			Sg	57:28.77	-0.60
KECS	58.8	305	Sg	9:57:43.13	-0.06
PSZ	96.8	253	Sg	9:57:54.98	-0.28
TRPA	104.8	93	Pg	9:57:43.46	0.24
			Sg	57:57.25	-0.56

987.

2019-11-08 time: 12:01:38.25 UTC ML= 1.4
lat: 47.523N lon: 18.419E h= 0.0 km
erh= 3.1km erz= 462km
nr= 7 gap=202 rms=0.31
Locality: Vértessomló
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	14.7	188	Pg	12:01:40.91	0.03
			Sg	01:43.51	0.57
CSKK	21.4	214	Pg	12:01:42.03	-0.04
			Sg	01:45.04	-0.01
SRO	33.2	346	eSg	12:01:49.20	0.39
PKST	41.3	225	Pg	12:01:45.09	-0.53
			Sg	01:51.50	0.13

988.

2019-11-09 time: 0:57:01.25 UTC ML=-0.2
lat: 47.240N lon: 18.109E h= 13.0 km
erh=13.1km erz= 6.0km
nr= 5 gap=239 rms=0.10
Locality: Várpalota
Comments:

Földrengés paraméterek

sta	dist	azm	phase	hr mn sec	res
PKST	6.0	291	Pg	0:57:03.88	0.07
			Sg	57:05.61	-0.20
CSKK	17.9	40	Sg	0:57:08.27	-0.01
PKSG	27.2	52	Pg	0:57:06.58	-0.06
			Sg	57:11.00	0.17

989.

2019-11-10 time: 8:31:28.61 UTC ML= 2.5
lat: 45.701N lon: 18.841E h= 4.4 km
erh= 1.7km erz= 2.0km
nr= 35 gap=101 rms=0.69
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	50.3	295	Pg	8:31:38.19	0.56
PKSM	58.9	345	Pg	8:31:39.58	0.42
			Sg	31:47.03	-0.35
MORH	59.2	345	Pg	8:31:39.64	0.42
			Sg	31:47.10	-0.40
KOVH	71.8	307	Pg	8:31:41.91	0.44
			Sg	31:50.69	-0.80
PKB3	84.9	19	Pg	8:31:44.62	0.82
			Sg	31:55.32	-0.32
PKB4	90.3	348	Pg	8:31:45.06	0.30
			Sg	31:57.29	-0.06
FRGS	98.5	130	Pg	8:31:45.44	-0.79
PKB5	99.7	355	Pg	8:31:46.86	0.42
			Sg	32:00.04	-0.31
PKS9	107.6	336	Pg	8:31:48.05	0.20
			Sg	32:02.07	-0.79
PKB2	112.6	16	Pg	8:31:47.10	-1.63
			Sg	32:03.92	-0.50
BLY	167.7	231	Pn	8:31:56.32	0.32
			Sn	32:15.97	-1.39
BEHE	181.2	298	Pn	8:31:57.17	-0.51
CSKK	190.1	346	Pn	8:31:59.95	1.16
			Sn	32:21.87	-0.45
PKSG	191.1	350	Sn	8:32:23.99	1.44
BZS	216.6	92	Sn	8:32:29.09	0.89
SIRR	227.3	74	PnC	8:32:05.92	2.49
			Sn	32:32.10	1.51
SURR	255.7	89	Sn	8:32:37.40	0.51
GROS	271.7	288	Sn	8:32:38.10	-2.35*
RONA	295.4	319	Pn	8:32:11.66	-0.26
GZR	309.3	96	PnC	8:32:16.15	2.50*
MODS	320.0	338	ePn	8:32:14.90	-0.09*
DRGR	322.2	68	PnD	8:32:15.10	-0.16*

990.

2019-11-11 time: 8:48:44.70 UTC ML= 1.4
lat: 47.329N lon: 18.426E h= 0.0 km
erh= 1.3km erz= 428km
nr= 9 gap=113 rms=0.32
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	7.5	339	PgU	8:48:46.04	-0.01
			Sg	48:46.58	-0.51
CSKK	13.1	287	Pg	8:48:47.34	0.30
			Sg	48:49.42	0.56
PKST	30.6	255	Pg	8:48:50.04	-0.13
			Sg	48:53.73	-0.70
MORH	124.8	172	Sg	8:49:24.59	0.21
PKSM	125.2	172	Sg	8:49:24.54	0.03
PSZ	128.4	59	Sg	8:49:25.51	-0.01

Hypocenter Parameters

991.

2019-11-11 time: 8:50:01.95 UTC ML= 1.7
lat: 48.130N lon: 21.359E h= 0.0 km
erh= 3.1km erz= 751km
nr= 8 gap=168 rms=0.55
Locality: Tarcál
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	20.5	334	Pg	8:50:06.19	0.58
			Sg	50:07.40	-1.07
KECS	75.8	301	Pg	8:50:15.62	0.14
			Sg	50:25.53	-0.51
TRPA	87.8	90	Pg	8:50:17.46	-0.17
			Sg	50:30.22	0.36
PSZ	111.8	258	Pg	8:50:22.37	0.47
			Sg	50:36.35	-1.12

992.

2019-11-12 time: 5:46:22.28 UTC ML= 2.3
lat: 47.551N lon: 18.397E h= 8.2 km
erh= 1.2km erz= 1.0km
nr= 42 gap= 38 rms=0.69
Locality: Tatabánya
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSG	17.8	182	Pg	5:46:25.66	-0.11
			Sg	46:28.05	-0.45
CSKK	23.3	206	Pg	5:46:26.58	-0.12
			Sg	46:30.11	-0.04
SRO	29.8	348	Pg	5:46:28.30	0.50
PKST	42.5	220	Pg	5:46:29.47	-0.55
			Sg	46:36.06	0.01
PBUD	47.3	102	Sg	5:46:37.48	-0.06
PENC	71.5	68	Pg	5:46:35.47	0.33
			Sg	46:44.13	-1.03
PKS7	80.5	134	Sg	5:46:48.27	0.28
A336	88.1	31	Pg	5:46:37.63	-0.46
			Sg	46:48.58	-1.84
PKS9	107.6	185	Pg	5:46:42.43	0.88
			Sg	46:56.22	-0.36
PKB5	109.4	166	Pg	5:46:42.24	0.37
			Sg	46:55.29	-1.86
PKB2	116.7	147	Pn	5:46:43.50	0.69
			Sn	46:57.94	-0.88
PKB4	118.3	172	Pn	5:46:43.68	0.66
			Sn	46:57.84	-1.35
PSZ	119.5	70	Pn	5:46:43.18	0.02
			Sn	46:58.99	-0.45
ZST	120.5	306	Pn	5:46:43.40	0.11
			Sn	46:58.13	-1.55
MODS	123.9	318	ePn	5:46:44.10	0.39
			eSn	46:59.70	-0.73
PKS6	138.0	140	Sn	5:47:04.61	1.05
SOP	139.0	276	Sn	5:47:03.63	-0.16
PKB3	139.3	154	Sn	5:47:04.49	0.65
MORH	149.7	173	Pn	5:46:46.97	0.05
			Sn	47:04.07	-2.07
RONA	158.8	276	Pn	5:46:49.68	1.62
			Sn	47:06.54	-1.63
KOVH	164.2	188	Sn	5:47:10.88	1.50
KECS	187.1	56	ePn	5:46:52.20	0.61
			eSn	47:18.10	3.65*
ARSA	219.5	261	Sn	5:47:21.78	0.13
VRAC	236.6	326	Pn	5:46:59.18	1.41

Hypocenter Parameters

993.

2019-11-12 time: 7:32:43.57 UTC ML= 1.4
lat: 47.107N lon: 17.892E h= 0.0 km
erh= 2.1km erz= 301km
nr= 8 gap=242 rms=0.21
Locality: Veszprém
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	20.0	33	Pg	7:32:47.09	-0.05
			Sg	32:49.93	0.01
CSKK	39.8	44	Pg	7:32:50.86	0.18
			Sg	32:55.87	-0.35
PKB5	85.9	132	Sg	7:33:11.19	0.31
MORH	114.6	150	Pg	7:33:04.07	0.03
PKSM	114.9	150	Pg	7:33:04.03	-0.06
			Sg	33:18.87	-1.22

994.

2019-11-12 time: 9:19:08.54 UTC ML= 1.1
lat: 46.173N lon: 18.292E h= 0.0 km
erh= 1.0km erz= 165km
nr= 6 gap=202 rms=0.10
Locality: Zobákpusztá
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	17.5	238	Pg	9:19:11.53	-0.14
			Sg	19:14.39	0.28
PKSM	27.4	81	Pg	9:19:13.46	0.04
MORH	27.6	80	Pg	9:19:13.48	0.01
PKSV	31.7	186	Pg	9:19:14.24	0.03
			Sg	19:18.58	-0.05

995.

2019-11-12 time: 9:32:59.61 UTC ML= 1.5
lat: 48.512N lon: 20.769E h= 0.0 km
erh= 1.9km erz= 486km
nr= 7 gap=143 rms=0.32
Locality: Tornaszentandrás
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	21.2	261	Pg	9:33:03.06	-0.34
			Sg	33:05.97	-0.38
ABAH	42.3	125	Pg	9:33:06.83	-0.33
			Sg	33:13.27	0.22
PSZ	92.6	225	Pg	9:33:16.44	0.28
			Sg	33:29.41	0.35
NIE	106.3	342	Pg	9:33:18.89	0.30

996.

2019-11-13 time: 8:54:07.11 UTC ML= 1.5
lat: 46.122N lon: 18.038E h= 0.0 km
erh= 1.3km erz= 220km
nr= 9 gap=251 rms=0.17
Locality: Bükkösd
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	6.1	128	PgU	8:54:08.16	-0.04
			Sg	54:09.51	0.47
PKSM	47.6	78	Pg	8:54:15.54	-0.08
			Sg	54:22.03	-0.22
MORH	48.0	77	Pg	8:54:15.67	0.00
			Sg	54:22.24	-0.11
PKS9	54.9	20	Sg	8:54:24.69	0.14
PKB4	60.2	46	Sg	8:54:26.57	0.31
PKB5	75.1	46	Sg	8:54:30.87	-0.12

Földrengés paraméterek

997.

2019-11-13 time: 11:19:26.32 UTC ML= 1.9
lat: 47.847N lon: 19.128E h= 0.0 km
erh= 2.5km erz= 538km
nr= 5 gap=150 rms=0.24
Locality: Szendehely
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	13.1	118	Pg	11:19:28.76	0.10
A336	44.0	347	Pg	11:19:34.55	0.37
			Sg	19:40.12	-0.20
PSZ	57.9	82	Sg	11:19:44.46	-0.27

998.

2019-11-14 time: 2:56:50.08 UTC ML= 1.4
lat: 45.667N lon: 18.493E h= 10.0 km
erh= 4.1km erz= 11.7km
nr= 9 gap=312 rms=0.31
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	30.9	323	Pg	2:56:55.65	-0.23
			Sg	57:00.77	0.36
KOVH	55.9	327	Pg	2:57:00.12	-0.10
			Sg	57:08.06	-0.07
PKSM	61.6	11	Pg	2:57:01.07	-0.16
			Sg	57:09.85	-0.07
MORH	62.1	11	Pg	2:57:01.23	-0.08
			Sg	57:09.94	-0.13
PKB4	92.6	5	Pg	2:57:07.55	0.85

999.

2019-11-14 time: 8:26:31.88 UTC ML= 1.3
lat: 47.285N lon: 18.417E h= 0.0 km
erh= 2.0km erz= 3.4km
nr= 7 gap=114 rms=0.88
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	12.0	351	Pg	8:26:33.29	-0.74
			Sg	26:33.89	-1.81
PKST	29.1	264	Pg	8:26:37.66	0.59
			Sg	26:40.90	-0.22
MORH	120.1	172	Sg	8:27:11.02	0.95
PKSM	120.6	172	Sg	8:27:11.45	1.25
PSZ	131.6	58	Sn	8:27:13.51	-0.09

1000.

2019-11-14 time: 8:39:15.16 UTC ML= 1.5
lat: 48.606N lon: 20.749E h= 0.0 km
erh= 2.7km erz= 719km
nr= 7 gap=153 rms=0.48
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.7	235	Pg	8:39:19.88	0.48
			Sg	39:22.74	0.04
ABAH	50.0	133	Pg	8:39:24.11	0.02
			Sg	39:30.83	-0.23
NIE	95.9	341	Pg	8:39:31.85	-0.43
PSZ	99.3	220	Sg	8:39:44.72	-2.01
LANS	111.8	303	Pg	8:39:35.48	0.35

Földrengés paraméterek

1001.

2019-11-14 time: 8:41:03.30 UTC ML= 1.5
lat: 47.851N lon: 19.118E h= 0.0 km
erh= 1.6km erz= 456km
nr= 7 gap=117 rms=0.31
Locality: Szendehely
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	14.0	119	Pg	8:41:05.99	0.19
			Sg	41:07.62	-0.13
A336	43.4	348	Pg	8:41:11.25	0.20
			Sg	41:16.86	-0.24
PSZ	58.6	83	Pg	8:41:14.05	0.29
			Sg	41:21.41	-0.51
PKST	104.8	231	Sg	8:41:35.96	-0.64

1002.

2019-11-14 time: 8:59:15.84 UTC ML= 1.6
lat: 45.839N lon: 18.422E h= 0.0 km
erh= 6.1km erz= 902km
nr= 8 gap=270 rms=0.66
Locality: Nagyharsány
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSV	14.3	293	Pg	8:59:18.24	-0.15
			Sg	59:19.74	-0.63
KOVH	37.3	318	Sg	8:59:27.25	-0.44
PKSM	44.8	22	Pg	8:59:23.81	-0.03
			Sg	59:29.80	-0.28
MORH	45.3	22	Pg	8:59:23.81	-0.12
			Sg	59:29.83	-0.41
PKS9	83.9	352	Pg	8:59:32.54	1.72

1003.

2019-11-14 time: 10:04:59.50 UTC ML= 1.6
lat: 47.870N lon: 19.401E h= 0.0 km
erh= 2.6km erz= 4.0km
nr= 13 gap=143 rms=0.71
Locality: Bercel
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	12.6	225	Pg	10:05:01.85	0.10
			Sg	05:03.71	0.20
PSZ	37.3	82	Pg	10:05:06.15	0.00
			Sg	05:11.54	0.19
A336	50.3	323	Pg	10:05:09.09	0.62
			Sg	05:14.76	-0.71
PKSG	92.7	235	Pg	10:05:16.14	0.08
			Sg	05:27.89	-1.09
KECS	105.6	50	ePg	10:05:18.10	-0.25
LANS	142.4	2	ePn	10:05:26.20	1.91
			eSn	05:41.70	-1.93
MODS	167.7	289	ePn	10:05:26.50	-0.95
			eSn	05:49.70	0.45

1004.

2019-11-14 time: 10:32:11.62 UTC ML= 0.6
lat: 47.188N lon: 18.307E h= 0.0 km
erh= 1.3km erz= 323km
nr= 5 gap=151 rms=0.15
Locality: Székesfehérvár
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	22.1	291	Pg	10:32:15.64	0.06
			Sg	32:18.51	-0.15
PKSG	23.6	16	Pg	10:32:15.99	0.16

Hypocenter Parameters

				Sg	32:18.85	-0.26
PKSM 111.5 167				Sg	10:32:46.99	-0.06
1005.						
2019-11-14				time: 10:54:18.20	UTC	ML= 1.7
lat: 48.600N				lon: 20.805E	h= 0.0 km	
				erh= 2.1km	erz= 650km	
nr= 9				gap=117	rms=0.49	
Locality: Slovakia						
Comments: probably explosion						
sta	dist	azm	phase	hr mn sec	res	
KECS	26.9	241	Pg	10:54:23.02	0.01	
			Sg	54:27.30	0.54	
ABAH	46.7	136	Pg	10:54:26.60	0.06	
			Sg	54:32.50	-0.53	
STHS	96.3	19	ePg	10:54:36.60	1.19	
			eSg	54:48.00	-0.82	
PSZ	101.6	222	Pg	10:54:36.44	0.10	
			Sg	54:50.17	-0.32	
LANS	115.6	302	Pg	10:54:38.35	-0.50	
1006.						
2019-11-14				time: 12:18:57.64	UTC	ML= 2.1
lat: 48.237N				lon: 21.230E	h= 0.0 km	
				erh= 2.8km	erz= 2.7km	
nr= 12				gap=139	rms=0.71	
Locality: Tállya						
Comments: probably explosion						
sta	dist	azm	phase	hr mn sec	res	
ABAH	6.6	6	Pg	12:18:58.87	0.05	
			Sg	18:59.79	0.05	
KECS	61.6	296	ePg	12:19:08.50	-0.15	
			eSg	19:16.60	-0.63	
PSZ	105.7	250	Pg	12:19:16.89	0.38	
			Sg	19:30.53	-0.70	
STHS	131.2	0	ePn	12:19:19.30	-1.73	
NIE	147.7	333	Sn	12:19:43.96	1.02	
LANS	164.8	308	Sn	12:19:47.22	0.48	
A336	165.8	270	Sn	12:19:47.22	0.27	
DRGR	195.6	145	Pn	12:19:30.17	1.11	
			Sn	19:52.62	-0.95	
1007.						
2019-11-15				time: 10:01:06.09	UTC	ML= 1.4
lat: 47.398N				lon: 18.371E	h= 0.0 km	
				erh= 4.8km	erz= 4.3km	
nr= 7				gap=184	rms=1.34	
Locality: Gánt						
Comments: probably explosion						
sta	dist	azm	phase	hr mn sec	res	
PKSG	1.6	113	Pg	10:01:07.17	0.79	
			Sg	01:07.48	0.87	
PKST	29.7	239	Pg	10:01:12.68	1.28	
			Sg	01:15.88	0.34	
PSZ	128.3	63	Sg	10:01:45.09	-1.77	
MORH	133.0	171	Sn	10:01:45.75	-2.38	
PKSM	133.4	171	Sn	10:01:46.67	-1.55	
1008.						
2019-11-18				time: 10:53:16.42	UTC	ML= 1.8
lat: 47.963N				lon: 20.044E	h= 0.0 km	
				erh= 5.8km	erz= 6.2km	
nr= 10				gap=176	rms=0.89	
Locality: Mátraballa						
Comments: probably explosion						

Hypocenter Parameters

sta	dist	azm	phase	hr mn sec	res
PSZ	12.2	246	Pg	10:53:18.65	0.06
			Sg	53:20.71	0.42
PENC	60.1	251	Pg	10:53:27.74	0.59
			Sg	53:35.39	-0.14
KECS	66.5	30	Pg	10:53:30.18	1.88
			Sg	53:36.84	-0.72
A336	83.4	291	Pg	10:53:30.69	-0.62
ABAH	96.4	67	Pg	10:53:33.68	0.05
			Sg	53:45.55	-1.51
PKSG	139.4	243	Sn	10:53:58.52	-1.36

1009.

2019-11-18 time: 11:16:37.39 UTC ML= 2.0
lat: 48.859N lon: 20.627E h= 7.3 km
erh= 6.8km erz= 5.0km
nr= 12 gap=158 rms=1.33
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr mn sec	res
KECS	43.1	194	Pg	11:16:44.81	-0.38
			Sg	16:50.71	-0.57
NIE	66.3	340	Sg	11:16:57.73	-0.86
			Pg	11:16:51.19	0.06
STHS	76.6	36	Sg	16:57.78	-4.07
			eSg	11:17:01.90	-4.43
LANS	90.8	291	Pn	11:16:58.69	0.51
			Sn	17:13.10	-1.30
A336	138.9	240	Pn	11:17:03.06	2.26
			Sn	17:17.33	-1.74
OJC	162.7	338	Pn	11:17:05.25	1.48
			Sn	17:24.60	0.24

1010.

2019-11-18 time: 11:39:25.74 UTC ML= 0.8
lat: 47.183N lon: 18.214E h= 0.0 km
erh= 0.4km erz=89.8km
nr= 5 gap=138 rms=0.04
Locality: Csór
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	16.0	302	Pg	11:39:28.60	0.00
			Sg	39:30.82	-0.01
PKSG	26.7	30	Pg	11:39:30.57	0.05
			Sg	39:34.17	-0.07
PKSM	112.8	163	Sg	11:40:01.59	-0.02

1011.

2019-11-18 time: 13:28:11.60 UTC ML= 1.6
lat: 47.869N lon: 20.158E h= 0.0 km
erh= 5.4km erz= 405km
nr= 6 gap=226 rms=0.23
Locality: Tarnaszentmária
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	20.4	285	Pg	13:28:15.21	-0.04
			Sg	28:17.97	-0.13
ABAH	93.5	60	Pg	13:28:28.59	0.29
			Sg	28:40.95	-0.38
A336	95.4	295	Pg	13:28:28.47	-0.17
			Sg	28:42.28	0.36

Földrengés paraméterek

1012.

2019-11-18 time: 14:38:58.72 UTC ML= 1.6
lat: 47.084N lon: 19.403E h= 0.0 km
erh= 3.4km erz= 4.1km
nr= 8 gap=189 rms=0.48
Locality: Tatárszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKS7	18.9	258	Pg	14:39:02.04	-0.05
			Sg	39:04.62	-0.10
PENC	79.1	353	Pg	14:39:13.63	0.79
PSZ	99.9	22	Pg	14:39:16.44	-0.11
			Sg	39:28.57	-1.90
MORH	112.7	211	Pg	14:39:18.69	-0.14
PKSM	113.1	211	Pg	14:39:19.07	0.15
KOVH	149.1	222	Sn	14:39:43.68	-0.65

1013.

2019-11-19 time: 7:33:52.55 UTC ML= 1.8
lat: 46.866N lon: 18.423E h= 5.0 km
erh= 1.5km erz= 5.8km
nr= 25 gap=126 rms=0.58
Locality: Dég
Comments:

sta	dist	azm	phase	hr mn sec	res
PKB1	29.6	108	PgU	7:33:58.56	0.64
			Sg	34:02.57	0.47
PKS9	33.0	200	Pg	7:33:59.44	0.93
PKB5	38.5	142	Pg	7:33:59.41	-0.07
			Sg	34:04.31	-0.58
PKB4	43.4	161	Pg	7:34:00.75	0.40
			Sg	34:06.32	-0.12
PKST	52.7	326	Pg	7:34:01.98	-0.03
			Sg	34:08.97	-0.41
PKSG	58.5	358	Sg	7:34:09.80	-1.41
PKB2	66.1	109	Pg	7:34:05.13	0.74
PKS2	73.4	125	Pg	7:34:05.77	0.08
MORH	74.3	167	Pg	7:34:05.65	-0.20
			Sg	34:14.54	-1.68
PKSM	74.7	167	Pg	7:34:05.66	-0.26
			Sg	34:14.55	-1.79
PKB3	76.9	130	Sg	7:34:16.15	-0.89
KOVH	90.0	196	Pg	7:34:08.51	-0.14
			Sg	34:19.87	-1.33
PKS6	92.1	109	Pg	7:34:09.18	0.15

1014.

2019-11-19 time: 9:22:54.38 UTC ML= 1.3
lat: 48.585N lon: 20.799E h= 0.0 km
erh= 4.7km erz= ***km
nr= 10 gap=115 rms=1.31
Locality: Tornanádaska
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	25.8	244	Sg	9:23:02.75	0.18
ABAH	45.7	135	Pg	9:23:02.55	0.00
			Sg	23:09.29	0.38
STHS	98.1	19	ePg	9:23:11.00	-0.89
			eSg	23:24.00	-1.55
NIE	99.4	339	Pg	9:23:14.50	2.38
			Pg	9:23:13.07	0.83
PSZ	100.0	222	Sg	23:24.71	-1.46
			ePg	9:23:13.70	-1.43
LANS	116.2	303	eSg	23:28.60	-2.72

Földrengés paraméterek

1015.

2019-11-19 time: 10:16:08.99 UTC ML= 1.4
lat: 47.940N lon: 20.440E h= 0.0 km
erh= 3.6km erz= 362km
nr= 7 gap=249 rms=0.30
Locality: Noszvaj
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	40.8	267	Pg	10:16:16.51	0.23
			Sg	16:21.67	-0.29
KECS	60.5	3	Pg	10:16:19.76	-0.03
			Sg	16:27.59	-0.63

1016.

2019-11-19 time: 13:28:53.72 UTC ML= 1.6
lat: 47.074N lon: 19.430E h= 0.0 km
erh= 4.3km erz= 680km
nr= 6 gap=192 rms=0.39
Locality: Tatárszentgyörgy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKS7	20.7	262	Pg	13:28:57.14	-0.27
			Sg	29:00.25	-0.04
PENC	80.4	352	Pg	13:29:08.73	0.65
PSZ	100.2	20	Pg	13:29:11.49	-0.11
			Sg	29:24.77	-0.78
PKSM	113.3	212	Pg	13:29:14.09	0.14

1017.

2019-11-20 time: 8:04:41.47 UTC ML= 1.9
lat: 47.325N lon: 18.450E h= 0.0 km
erh= 1.1km erz= 1.6km
nr= 9 gap=114 rms=0.30
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	8.7	329	PgU	8:04:43.16	0.13
			Sg	04:43.47	-0.77
PKST	32.3	257	Pg	8:04:47.64	0.41
			Sg	04:51.67	-0.06
MORH	124.1	173	Sg	8:05:20.85	-0.07
PKSM	124.5	173	Sg	8:05:20.67	-0.38
PSZ	127.1	59	Sg	8:05:21.87	0.02
KOVH	140.0	191	Sn	8:05:25.10	0.04
MODS	146.0	323	eSn	8:05:26.20	-0.19

1018.

2019-11-20 time: 8:07:21.13 UTC ML= 1.8
lat: 48.263N lon: 21.211E h= 0.0 km
erh= 5.4km erz= 875km
nr= 6 gap=219 rms=0.51
Locality: Abaújszántó
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	4.3	30	Pg	8:07:21.44	-0.44
			Sg	07:22.88	0.40
KECS	59.1	295	Pg	8:07:31.59	-0.09
			Sg	07:39.96	0.06
PSZ	105.3	249	Pg	8:07:40.67	0.74
			Sg	07:53.72	-0.88

Hypocenter Parameters

1019.

2019-11-20 time: 8:34:21.03 UTC ML= 1.7
lat: 46.078N lon: 18.121E h= 0.0 km
erh= 2.5km erz= 792km
nr= 8 gap=151 rms=0.58
Locality: Cserkút
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	2.0	305	PgU	8:34:20.57	-0.82
			Sg	34:22.01	0.35
PKSV	23.4	154	Sg	8:34:29.41	0.93
PKSM	42.9	70	Sg	8:34:34.19	-0.47
MORH	43.2	69	Sg	8:34:34.35	-0.43
PKB4	59.6	39	Pg	8:34:31.89	0.22
			Sg	34:40.80	0.84
PKB5	74.4	39	Sg	8:34:44.71	0.01

1020.

2019-11-20 time: 10:50:08.74 UTC ML= 1.6
lat: 48.596N lon: 20.730E h= 0.0 km
erh= 2.3km erz= 4.6km
nr= 11 gap=150 rms=0.62
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	22.0	235	Pg	10:50:12.91	0.24
			Sg	50:16.10	0.37
ABAH	50.3	132	Pg	10:50:17.75	0.03
			Sg	50:24.03	-0.70
NIE	96.5	342	Pg	10:50:27.08	1.11
			Sg	50:38.47	-0.94
PSZ	97.6	219	Pg	10:50:26.43	0.26
			Sg	50:39.12	-0.65
LANS	111.3	304	Pg	10:50:28.59	-0.03
			Sg	50:42.59	-1.53
A336	134.4	253	Sn	10:50:50.82	-0.27

1021.

2019-11-21 time: 7:30:45.46 UTC ML= 0.8
lat: 47.295N lon: 18.334E h= 0.0 km
erh= 1.5km erz= 2.3km
nr= 6 gap=122 rms=0.22
Locality: Magyaralmás
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	11.5	22	Pg	7:30:47.71	0.19
			Sg	30:48.88	-0.25
PKST	23.1	260	Pg	7:30:49.75	0.17
			Sg	30:52.35	-0.44
PKSM	122.7	169	Sg	7:31:24.45	-0.01
PSZ	136.2	59	Sn	7:31:28.07	-0.14

1022.

2019-11-21 time: 10:30:54.32 UTC ML= 2.3
lat: 48.240N lon: 21.214E h= 0.0 km
erh= 2.3km erz= 2.4km
nr= 8 gap=233 rms=0.31
Locality: Tállya
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	6.5	17	Pg	10:30:55.06	-0.42
			Sg	30:56.77	0.39
KECS	60.4	297	Pg	10:31:05.16	0.06
			Sg	31:13.40	-0.11
PSZ	104.7	250	Pg	10:31:13.19	0.18
			Sg	31:27.30	-0.29

Hypocenter Parameters

LANS 163.6 308 Sn 10:31:43.45 0.29
A336 164.6 270 Sn 10:31:44.83 1.46

1023.

2019-11-21 time: 12:30:44.57 UTC ML= 2.0
lat: 48.121N lon: 18.996E h= 0.0 km
erh= 2.2km erz= 731km
nr= 7 gap=106 rms=0.48
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
A336	12.5	1	Pg	12:30:46.96	0.16
			Sg	30:49.05	0.51
PENC	42.5	150	Sg	12:30:58.55	0.47
A338	49.4	256	Sg	12:30:59.88	-0.38
PSZ	70.7	109	Sg	12:31:07.29	0.24
KECS	117.7	70	ePg	12:31:04.90	-0.68
			eSg	31:20.30	-1.67

1024.

2019-11-22 time: 9:30:46.60 UTC ML= 1.5
lat: 48.099N lon: 21.275E h= 0.0 km
erh= 8.3km erz= ***km
nr= 5 gap=266 rms=0.50
Locality: Taktabáj
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	22.0	353	Pg	9:30:50.80	0.27
			Sg	30:52.07	-1.53
KECS	72.5	306	Pg	9:30:59.94	0.40
			Sg	31:09.49	-0.15
PSZ	105.0	259	Pg	9:31:05.18	-0.17

1025.

2019-11-22 time: 10:04:17.28 UTC ML= 1.7
lat: 48.599N lon: 20.782E h= 0.0 km
erh= 1.8km erz= 3.0km
nr= 11 gap=114 rms=0.46
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	25.4	240	Pg	10:04:22.40	0.59
			Sg	04:24.56	-0.78
ABAH	47.8	135	Pg	10:04:26.32	0.51
			Sg	04:32.10	-0.36
STHS	97.0	20	Pg	10:04:34.72	0.11
			Sg	04:46.97	-1.16
PSZ	100.3	221	Pg	10:04:34.82	-0.38
			Sg	04:48.82	-0.35
LANS	114.3	302	Pg	10:04:38.03	0.34
A336	138.1	253	Pn	10:04:41.58	0.04
			Sn	05:00.28	-0.17

1026.

2019-11-25 time: 9:50:56.52 UTC ML= 1.7
lat: 47.800N lon: 18.989E h= 0.0 km
erh= 2.6km erz= 817km
nr= 7 gap=132 rms=0.54
Locality: Kisoroszi
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	22.0	93	Pg	9:51:00.99	0.55
			Sg	51:03.74	0.23
A336	48.1	1	Pg	9:51:05.12	0.01
			Sg	51:11.81	-0.01
PKSG	63.9	225	Sg	9:51:16.10	-0.73

Földrengés paraméterek

PSZ 69.1 79 Sg 9:51:17.12 -1.35
PKST 93.7 230 Sg 9:51:26.62 0.31

1027.

2019-11-26 time: 4:10:49.06 UTC ML= 2.6
lat: 46.101N lon: 16.601E h= 10.0 km
erh= 1.5km erz= 1.3km
nr= 31 gap=137 rms=0.54
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
BEHE	43.2	18	Pg	4:10:57.38	0.40
			Sg	11:03.30	0.15
KOGS	47.1	325	Pg	4:10:57.51	-0.15
			Sg	11:03.10	-1.27
PTJ	54.6	246	Pg	4:10:58.91	-0.06
			Sg	11:05.96	-0.74
ZAG	55.9	237	Pg	4:10:59.82	0.62
			Sg	11:07.69	0.57
GOLS	76.2	262	iPg	4:11:03.39	0.60
			eSg	11:13.91	0.41
GCIS	79.8	251	iPg	4:11:03.51	0.09
			eSg	11:14.20	-0.42
DOBS	87.6	274	iPg	4:11:04.69	-0.12
			eSg	11:16.04	-1.06
CESS	89.2	261	iPg	4:11:04.56	-0.53
			eSg	11:17.11	-0.49
GROS	93.7	295	Pg	4:11:05.84	-0.05
CRES	93.8	251	Pg	4:11:05.67	-0.24
LEGS	100.8	260	ePg	4:11:07.44	0.29
			eSg	11:20.61	-0.65
KOVH	115.9	91	Pn	4:11:08.99	-0.28
			Sn	11:23.79	-1.24
ZAVS	127.0	287	iPn	4:11:10.95	0.29
			eSn	11:26.22	-1.28
PERS	128.8	298	Pn	4:11:11.54	0.67
			Sn	11:27.16	-0.73
PKSV	130.1	100	Pn	4:11:10.86	-0.18
SOKA	136.6	298	Pn	4:11:12.51	0.66
			Sn	11:27.41	-2.22*
RONA	179.2	353	Pn	4:11:18.61	1.44
			Sn	11:39.62	0.53

1028.

2019-11-26 time: 7:25:31.72 UTC ML= 1.8
lat: 47.533N lon: 18.032E h= 10.9 km
erh= 2.1km erz= 1.8km
nr= 23 gap= 98 rms=0.88
Locality: Kisbér
Comments:

sta	dist	azm	phase	hr mn sec	res
PKST	30.5	180	Pg	7:25:37.01	-0.49
			Sg	25:41.89	-0.12
PKSG	31.3	120	Pg	7:25:37.38	-0.25
			Sg	25:42.47	0.23
SRO	37.6	34	Pg	7:25:38.86	0.14
			Sg	25:44.57	0.39
A339	43.4	319	Sg	7:25:46.44	0.50
BUD	74.9	94	Sg	7:25:54.30	-1.48
PENC	98.1	73	Sg	7:26:03.12	0.02
A336	106.3	43	Pn	7:25:50.48	-0.13
			Sn	26:03.46	-1.88
MODS	109.2	329	ePn	7:25:51.20	0.23
			eSn	26:03.80	-2.18
PKB5	117.2	153	Pn	7:25:53.35	1.38
			Sn	26:07.02	-0.75
RONA	131.8	278	Pn	7:25:53.47	-0.32
			Sn	26:08.87	-2.14
PSZ	146.1	73	Sn	7:26:16.33	2.14
MORH	153.7	162	Sn	7:26:15.27	-0.60
PKSM	154.1	162	Pn	7:25:56.88	0.31

Földrengés paraméterek

CONA 168.6 285	Sn	26:17.12	1.17
	Pn	7:26:00.08	1.69
	Sn	26:19.50	0.31

1029.

2019-11-26 time: 10:07:43.41 UTC ML= 1.5
lat: 46.175N lon: 18.286E h= 0.0 km
erh= 0.8km erz= 153km
nr= 8 gap=205 rms=0.11
Locality: Zobákpusztá
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	17.3	236	Pg	10:07:46.36	-0.15
			Sg	07:49.03	0.11
PKSM	27.7	82	Pg	10:07:48.45	0.09
			Sg	07:52.05	-0.18
MORH	28.0	81	Pg	10:07:48.52	0.10
			Sg	07:52.26	-0.06
PKSV	32.0	185	Pg	10:07:49.07	-0.05
			Sg	07:53.70	0.13

1030.

2019-11-26 time: 11:33:03.08 UTC ML= 1.5
lat: 48.584N lon: 20.769E h= 0.0 km
erh= 4.3km erz= 9.1km
nr= 11 gap= 90 rms=1.27
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.7	242	Pg	11:33:07.37	0.05
			Sg	33:10.07	-0.56
ABAH	47.3	133	Sg	11:33:17.63	-0.50
			Pg	11:33:22.07	1.40
PSZ	98.5	221	Sg	33:34.43	0.04
			Pg	11:33:22.84	2.15
NIE	98.6	340	Pg	11:33:22.84	2.15
			ePg	11:33:20.40	-0.34
STHS	98.9	21	ePg	11:33:20.40	-0.34
			eSg	33:31.90	-2.61
LANS	114.3	303	Pg	11:33:23.30	-0.20
			Sg	33:37.49	-1.94
TRPA	140.6	111	Sn	11:33:44.59	-2.22

1031.

2019-11-27 time: 8:39:10.37 UTC ML= 2.1
lat: 47.286N lon: 18.384E h= 0.0 km
erh= 1.3km erz= 1.8km
nr= 6 gap=168 rms=1.08
Locality: Zámoly
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	11.7	2	PgU	8:39:11.65	-0.82
			Sg	39:12.08	-2.03
PKST	26.6	263	Sg	8:39:19.37	0.53
MORH	120.6	171	Sg	8:39:49.65	0.93
PKSM	121.1	171	Sg	8:39:49.58	0.73
KOVH	134.9	189	Sn	8:39:54.05	1.21

1032.

2019-11-27 time: 8:42:08.70 UTC ML= 1.9
lat: 47.846N lon: 19.083E h= 0.0 km
erh= 4.9km erz= ***km
nr= 5 gap=121 rms=0.67
Locality: Szendehely
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	16.1	113	Pg	8:42:11.59	0.01
			Sg	42:13.79	-0.03

Hypocenter Parameters

A336	43.5	352	Sg	8:42:22.71	0.19
PKSG	72.5	226	Sg	8:42:32.76	1.01
PKST	102.4	230	Sg	8:42:39.86	-1.39

1033.

2019-11-28 time: 8:32:05.70 UTC ML= 1.9
lat: 46.971N lon: 17.605E h= 0.0 km
erh= 8.9km erz= ***km
nr= 8 gap=247 rms=0.96
Locality: Vigántpetend
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
TIH	23.3	110	Pg	8:32:10.36	0.51
			Sg	32:15.09	1.99
PKST	45.7	45	Pg	8:32:14.13	0.27
			Sg	32:19.34	-0.89
PKSG	75.8	52	Sg	8:32:29.68	-0.10
KOVH	105.1	159	Sg	8:32:39.56	0.44
MORH	115.7	136	Sg	8:32:40.80	-1.66
PKSM	115.8	137	Sg	8:32:41.11	-1.41

1034.

2019-11-28 time: 11:43:41.77 UTC ML= 1.9
lat: 48.182N lon: 21.162E h= 0.0 km
erh= 3.3km erz= 796km
nr= 6 gap=160 rms=0.48
Locality: Szerencs
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	14.0	24	PgU	11:43:44.62	0.36
			Sg	43:45.80	-0.40
KECS	60.3	304	Sg	11:44:01.39	0.44
PSZ	98.9	253	Pg	11:43:58.96	-0.48
TRPA	102.6	93	Pg	11:44:00.54	0.45
			Sg	44:13.61	-0.78

1035.

2019-11-28 time: 12:10:02.56 UTC ML= 2.1
lat: 48.193N lon: 21.289E h= 0.0 km
erh= 2.8km erz= 662km
nr= 6 gap=159 rms=0.39
Locality: Mád
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
ABAH	12.0	342	PgU	12:10:04.91	0.20
			Sg	10:06.08	-0.30
KECS	67.7	298	Pg	12:10:15.03	0.37
			Sg	10:23.09	-1.00
TRPA	93.3	94	Sg	12:10:32.05	-0.16
PSZ	108.4	254	Sg	12:10:37.02	0.01

1036.

2019-11-28 time: 23:25:42.00 UTC ML= 1.3
lat: 48.022N lon: 20.663E h= 11.4 km
erh= 1.1km erz= 2.5km
nr= 11 gap=161 rms=0.25
Locality: Kisgyőr
Comments:

sta	dist	azm	phase	hr mn sec	res
ABAH	52.6	55	Pg	23:25:51.62	0.01
			Sg	25:58.87	-0.23
KECS	52.9	346	Pg	23:25:52.11	0.45
			Sg	25:58.99	-0.21
PSZ	58.6	259	PgU	23:25:52.64	-0.01
			Sg	26:00.55	-0.41

Hypocenter Parameters

Földrendés paraméterek

1037.

2019-11-29 time: 9:42:37.87 UTC ML= 1.7
lat: 47.687N lon: 18.553E h= 0.0 km
erh= 4.3km erz= ***km
nr= 7 gap=107 rms=0.97
Locality: Nagysáp
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
SRO	22.8	308	Sg	9:42:44.66	-0.46
PKSG	35.0	200	Pg	9:42:44.73	0.60
			Sg	42:49.26	0.25
BUD	42.0	123	Sg	9:42:49.15	-2.07
PENC	55.8	78	Pg	9:42:48.64	0.80
			Sg	42:56.11	0.50
A336	69.2	29	Sg	9:42:58.27	-1.61

1038.

2019-11-29 time: 10:10:58.96 UTC ML= 0.6
lat: 47.492N lon: 18.032E h= 0.1 km
erh= 2.4km erz= 670km
nr= 6 gap=143 rms=0.40
Locality: Kisdér
Comments:

sta	dist	azm	phase	hr mn sec	res
PKST	25.9	180	Pg	10:11:03.96	0.38
			Sg	11:06.48	-0.71
PKSG	29.2	112	Pg	10:11:04.48	0.30
			Sg	11:07.74	-0.51
SRO	41.5	31	Sg	10:11:12.26	0.10
A339	47.0	323	Sg	10:11:13.56	-0.33

1039.

2019-11-30 time: 10:14:58.16 UTC ML= 1.1
lat: 46.174N lon: 18.296E h= 0.0 km
erh= 0.7km erz= 133km
nr= 8 gap=202 rms=0.09
Locality: Zobákpusztá
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	17.9	238	Pg	10:15:01.21	-0.14
			Sg	15:04.04	0.20
PKSM	27.0	81	Pg	10:15:02.98	-0.01
			Sg	15:06.80	0.05
MORH	27.3	80	Pg	10:15:03.12	0.08
			Sg	15:06.76	-0.08
PKSV	31.9	186	Pg	10:15:03.86	0.01
			Sg	15:08.23	-0.06

1040.

2019-11-30 time: 16:04:12.73 UTC ML= 1.5
lat: 48.013N lon: 20.666E h= 9.8 km
erh= 1.5km erz= 3.2km
nr= 10 gap=206 rms=0.25
Locality: Kisgyőr
Comments:

sta	dist	azm	phase	hr mn sec	res
ABAH	53.0	54	Pg	16:04:22.14	-0.21
			Sg	04:29.70	-0.16
KECS	53.9	346	Pg	16:04:22.93	0.42
			Sg	04:29.88	-0.27
PSZ	58.5	260	Pg	16:04:23.35	0.02
			Sg	04:31.25	-0.35

1041.

2019-12-02 time: 10:00:16.28 UTC ML= 1.8
lat: 48.601N lon: 20.728E h= 0.0 km
erh= 1.5km erz= 2.8km
nr= 9 gap=109 rms=0.37
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	22.2	234	Pg	10:00:20.64	0.40
			Sg	00:23.70	0.37
ABAH	50.8	132	Pg	10:00:25.27	-0.09
			Sg	00:31.99	-0.45
PSZ	98.0	219	Sg	10:00:47.06	-0.36
STHS	98.2	23	ePg	10:00:34.00	0.18
LANS	110.8	303	Pg	10:00:36.31	0.24
			Sg	00:50.48	-1.02
A336	134.4	252	Sn	10:00:58.20	-0.42

1042.

2019-12-02 time: 11:40:02.93 UTC ML= 1.8
lat: 47.750N lon: 19.047E h= 0.0 km
erh= 2.6km erz= 5.8km
nr= 10 gap=108 rms=0.77
Locality: Tahitótfalu
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	18.2	76	Pg	11:40:07.07	0.90
			Sg	40:09.65	0.95
BUD	29.6	183	Sg	11:40:11.74	-0.61
A336	53.9	356	Pg	11:40:12.60	0.06
			Sg	40:19.05	-1.00
SRO	55.4	277	eSg	11:40:21.80	1.25
PSZ	66.2	74	Pg	11:40:14.59	-0.15
			Sg	40:23.25	-0.71
KECS	134.6	53	ePn	11:40:26.00	-0.75
			eSn	40:43.30	-2.03

1043.

2019-12-03 time: 9:21:51.88 UTC ML= 1.5
lat: 46.103N lon: 18.039E h= 0.0 km
erh= 2.3km erz= 523km
nr= 14 gap=234 rms=0.45
Locality: Bükkösd
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	5.0	109	Pg	9:21:52.74	-0.03
			Sg	21:54.12	0.65
PKSV	29.0	145	Pg	9:21:56.88	-0.18
			Sg	22:01.60	0.49
PKSM	48.1	75	Pg	9:22:00.05	-0.41
			Sg	22:06.54	-0.62
MORH	48.4	75	Pg	9:22:00.15	-0.37
			Sg	22:06.43	-0.83
PKS9	56.9	19	Pg	9:22:02.47	0.44
			Sg	22:09.36	-0.59
PKB4	61.7	45	Pg	9:22:02.83	-0.06
			Sg	22:11.83	0.35
PKB5	76.6	44	Pg	9:22:06.05	0.50
			Sg	22:17.00	0.78

1044.

2019-12-03 time: 9:53:29.05 UTC ML= 0.8
lat: 47.196N lon: 18.286E h= 0.0 km
erh= 0.9km erz= 259km
nr= 6 gap=146 rms=0.16
Locality: Sárkeszi
Comments: probably explosion

Földrengés paraméterek

sta	dist	azm	phase	hr mn sec	res
PKST	20.3	290	Pg	9:53:32.68	0.00
			Sg	53:35.33	-0.18
PKSG	23.2	20	Pg	9:53:33.37	0.18
			Sg	53:36.07	-0.35
MORH	112.3	166	Sg	9:54:04.77	0.01
PKSM	112.7	166	Sg	9:54:04.97	0.09

1045.

2019-12-03 time: 9:58:03.24 UTC ML= 1.7
lat: 48.579N lon: 20.715E h= 0.0 km
erh= 2.9km erz= 7.2km
nr= 9 gap=128 rms=0.91
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	20.1	238	Pg	9:58:07.52	0.70
			Sg	58:10.07	0.45
ABAH	50.0	129	Pg	9:58:12.83	0.66
			Sg	58:19.31	0.18
PSZ	95.5	220	Pg	9:58:20.64	0.34
			Sg	58:31.88	-1.72
NIE	97.9	343	Sg	9:58:33.10	-1.25
LANS	111.4	305	Pg	9:58:23.19	0.06
TRPA	144.1	110	Sn	9:58:45.05	-2.70

1046.

2019-12-04 time: 10:29:20.56 UTC ML= 1.8
lat: 48.573N lon: 20.771E h= 0.0 km
erh= 1.4km erz= 1.9km
nr= 13 gap= 90 rms=0.57
Locality: Tornanádaska
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.3	245	Pg	10:29:25.05	0.33
			Sg	29:28.46	0.49
ABAH	46.4	132	Pg	10:29:29.07	0.23
			Sg	29:36.17	0.87
PSZ	97.6	222	Pg	10:29:38.25	0.25
			Sg	29:50.34	-1.25
NIE	99.9	340	Pg	10:29:38.74	0.35
STHS	100.0	20	Pg	10:29:38.94	0.52
			Sg	29:51.82	-0.53
A336	136.5	254	Pn	10:29:44.44	-0.18
			Sn	30:02.66	-0.72
TRPA	140.0	111	Pn	10:29:44.44	-0.61
			Sn	30:02.55	-1.61

1047.

2019-12-04 time: 10:43:27.71 UTC ML= 1.4
lat: 47.869N lon: 19.176E h= 0.0 km
erh= 2.2km erz= 401km
nr= 6 gap=204 rms=0.26
Locality: Ősagárd
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	11.7	138	Pg	10:43:29.83	0.03
			Sg	43:30.77	-0.67
A336	42.6	342	Pg	10:43:35.40	0.08
			Sg	43:40.87	-0.39
PSZ	54.0	84	Pg	10:43:37.51	0.16
			Sg	43:45.17	0.30

Hypocenter Parameters

1048.

2019-12-04 time: 13:23:40.54 UTC ML= 1.7
lat: 46.788N lon: 17.285E h= 0.0 km
erh= 2.8km erz= 4.8km
nr= 14 gap=103 rms=0.94
Locality: Keszthely
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
MPLH	46.7	24	Sg	13:23:55.13	-0.25
PKST	77.4	47	Pg	13:23:54.60	0.25
			Sg	24:06.00	0.87
KOGS	87.8	245	Sg	13:24:09.44	0.99
KOVH	99.8	141	Pg	13:23:59.59	1.22
PKB4	106.0	108	Sg	13:24:13.99	-0.25
PKSG	107.5	51	Sg	13:24:14.83	0.13
PKB5	113.0	101	Sg	13:24:17.99	1.53
MORH	122.2	121	Pg	13:24:02.49	0.13
			Sg	24:17.38	-1.99
PKSM	122.2	122	Pg	13:24:01.78	-0.59
			Sg	24:17.38	-2.01
GROS	141.3	255	Sn	13:24:23.48	-0.95
CONA	166.3	320	Sn	13:24:29.23	-0.73

1049.

2019-12-05 time: 8:42:04.88 UTC ML= 1.2
lat: 45.870N lon: 18.419E h= 0.0 km
erh= 1.9km erz= 296km
nr= 8 gap=254 rms=0.21
Locality: Villány
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSV	13.1	279	Pg	8:42:06.91	-0.32
			Sg	42:09.17	0.11
KOVH	34.6	314	Pg	8:42:11.28	0.21
			Sg	42:15.84	-0.05
PKSM	41.7	24	Pg	8:42:12.46	0.14
			Sg	42:17.65	-0.47
MORH	42.1	24	Pg	8:42:12.45	0.04
			Sg	42:18.39	0.11

1050.

2019-12-05 time: 10:49:11.20 UTC ML= 2.0
lat: 48.858N lon: 20.529E h= 0.0 km
erh= 3.2km erz= 4.0km
nr= 14 gap=102 rms=0.85
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	41.8	184	Pg	10:49:18.75	0.08
			Sg	49:24.14	-0.36
NIE	64.3	346	Pg	10:49:24.43	1.75
			Sg	49:29.64	-1.99
STHS	81.1	40	Pg	10:49:25.78	0.10
			Sg	49:35.61	-1.36
ABAH	81.6	140	Pg	10:49:25.68	-0.09
			Sg	49:37.50	0.36
PSZ	114.6	204	Pg	10:49:31.75	0.09
			Sg	49:46.62	-1.01
A336	132.7	238	Sn	10:49:52.18	-0.98
PENC	150.5	218	Sn	10:49:57.60	0.47
OJC	160.4	341	Pn	10:49:39.04	0.81
			Sn	49:58.77	-0.54

Hypocenter Parameters

1051.

2019-12-05 time: 11:22:54.95 UTC ML= 1.6
lat: 48.490N lon: 18.743E h= 0.0 km
erh= 4.4km erz= 7.6km
nr= 10 gap=145 rms=0.88
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
A336	34.2	146	Pg	11:23:02.60	1.54
			Sg	23:06.12	0.29
PENC	87.5	153	Sg	11:23:22.29	-0.45
PSZ	106.6	127	Pg	11:23:13.86	-0.12
			Sg	23:29.33	0.51
MODS	109.3	263	ePg	11:23:14.40	-0.06
			eSg	23:28.80	-0.88
PKSG	124.9	192	Sg	11:23:33.79	-0.85
KECS	128.8	90	Sg	11:23:33.80	-2.08
NIE	154.6	48	Sn	11:23:41.73	-0.04

1052.

2019-12-05 time: 13:14:09.28 UTC ML= 1.7
lat: 47.911N lon: 19.464E h= 0.0 km
erh= 3.3km erz= 5.1km
nr= 11 gap=137 rms=0.97
Locality: Szanda
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	19.2	225	Pg	13:14:13.51	0.81
			Sg	14:16.67	1.30
PSZ	32.2	89	Pg	13:14:14.74	-0.28
			Sg	14:20.23	0.72
A336	49.8	316	Pg	13:14:17.79	-0.38
			Sg	14:26.34	1.23
KECS	99.0	50	Sg	13:14:39.98	-0.78
PKSG	99.2	234	Sg	13:14:40.63	-0.18
PKST	129.7	236	Sg	13:14:48.93	-1.58
ABAH	139.0	72	Sn	13:14:53.00	0.36
MODS	170.7	288	eSn	13:14:56.60	-3.07

1053.

2019-12-06 time: 7:50:05.22 UTC ML= 0.7
lat: 47.254N lon: 18.347E h= 0.0 km
erh= 1.1km erz= 323km
nr= 6 gap=157 rms=0.84
Locality: Sárkeresztos
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	15.7	12	Pg	7:50:07.43	-0.58
			Sg	50:09.07	-1.13
PKST	23.7	271	Pg	7:50:09.31	-0.14
			Sg	50:12.85	0.09
MORH	117.6	169	Sg	7:50:44.34	1.73
PKSM	118.0	169	Sg	7:50:43.79	1.06

1054.

2019-12-06 time: 19:03:49.18 UTC ML= 1.3
lat: 47.906N lon: 19.231E h= 8.4 km
erh= 1.1km erz= 1.3km
nr= 14 gap= 81 rms=0.32
Locality: Romhány
Comments:

sta	dist	azm	phase	hr mn sec	res
PENC	13.4	163	Pg	19:03:51.94	-0.06
			Sg	03:54.28	0.08
A336	40.3	335	Pg	19:03:56.71	0.19
			Sg	04:01.77	-0.48

Földrengés paraméterek

PSZ	49.6	88	Pg	19:03:58.15	-0.02
			Sg	04:04.75	-0.43
A338	66.7	280	Sg	19:04:10.33	-0.22
SRO	69.4	261	eSg	19:04:11.70	0.30
PKSG	85.2	228	Pg	19:04:04.21	-0.25
KECS	113.2	55	ePn	19:04:09.40	0.14
			eSn	04:22.40	-2.53*
PKST	115.2	231	Pn	19:04:09.14	-0.37
MODS	154.4	290	ePn	19:04:15.60	1.21

1055.

2019-12-08 time: 7:51:35.92 UTC ML= 1.8
lat: 46.572N lon: 17.403E h= 14.8 km
erh= 2.3km erz= 1.8km
nr= 21 gap= 66 rms=0.74
Locality: Marcali
Comments:

sta	dist	azm	phase	hr mn sec	res
BEHE	49.5	257	Sg	7:51:52.21	-0.12
PKS9	67.2	89	Pg	7:51:48.40	0.20
			Sg	51:58.93	1.15
MPLH	67.3	9	Pg	7:51:48.83	0.59
			Sg	51:57.76	-0.08
KOVH	75.9	135	Pg	7:51:49.93	0.19
			Sg	51:59.17	-1.34
PKST	90.3	32	P*	7:51:51.99	-0.02
			S*	52:03.48	-1.09
PKB4	92.5	95	P*	7:51:53.58	1.23
			S*	52:06.20	1.03
PKSV	100.3	139	S*	7:52:06.04	-1.24
PKB5	102.2	89	Sn	7:52:07.12	-0.63
PKSM	103.3	113	Pn	7:51:54.25	0.31
			Sn	52:07.24	-0.76
MORH	103.3	113	Pn	7:51:54.45	0.51
			Sn	52:07.27	-0.73
PKB1	108.9	77	Sn	7:52:08.15	-1.08

1056.

2019-12-09 time: 10:05:02.62 UTC ML= 1.7
lat: 48.593N lon: 20.751E h= 0.0 km
erh= 1.7km erz= 3.0km
nr= 12 gap= 90 rms=0.53
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.1	238	Pg	10:05:06.89	0.15
			Sg	05:09.30	-0.65
ABAH	49.0	132	Pg	10:05:11.11	-0.26
			Sg	05:18.76	0.58
NIE	97.3	341	Pg	10:05:20.75	0.75
PSZ	98.3	220	Pg	10:05:20.41	0.23
			Sg	05:34.13	0.25
STHS	98.5	21	ePg	10:05:20.10	-0.11
LANS	112.7	303	ePg	10:05:22.40	-0.35
			eSg	05:36.50	-1.95
A336	135.7	253	Sn	10:05:44.78	-0.48
TRPA	142.2	111	Sn	10:05:44.54	-2.15

1057.

2019-12-09 time: 12:16:52.32 UTC ML= 1.5
lat: 48.008N lon: 20.134E h= 0.0 km
erh= 9.2km erz= ***km
nr= 7 gap=172 rms=1.30
Locality: Pétervására
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	20.5	241	Pg	12:16:55.69	-0.29
			Sg	16:58.64	-0.19
KECS	58.9	26	eSg	12:17:08.10	-2.95

Földrengés paraméterek

PENC 68.2 249 Sg 12:17:12.38 -1.61
A336 88.2 286 Pg 12:17:09.53 1.47
Sg 17:20.91 0.57
ABAH 88.2 69 Sg 12:17:21.42 1.05

1058.

2019-12-10 time: 9:42:13.81 UTC ML= 1.1
lat: 46.155N lon: 18.320E h= 0.0 km
erh= 1.1km erz= 266km
nr= 9 gap=143 rms=0.20
Locality: Vasas
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	18.6	246	Pg	9:42:17.29	0.16
			Sg	42:19.29	-0.43
PKSM	25.6	76	Pg	9:42:18.25	-0.13
			Sg	42:22.03	0.09
MORH	25.9	75	Pg	9:42:18.31	-0.12
			Sg	42:21.84	-0.20
PKSV	30.1	190	Pg	9:42:19.27	0.08
			Sg	42:23.51	0.13
PKB4	43.8	30	Sg	9:42:28.22	0.50

1059.

2019-12-10 time: 10:36:32.95 UTC ML= 1.9
lat: 48.586N lon: 20.760E h= 0.0 km
erh= 1.1km erz= 1.7km
nr= 10 gap=128 rms=0.25
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	23.3	240	Pg	10:36:37.37	0.26
			Sg	36:40.22	-0.14
ABAH	48.0	132	Pg	10:36:41.19	-0.33
			Sg	36:48.31	0.11
PSZ	98.2	221	Pg	10:36:50.55	0.05
			Sg	37:04.11	-0.07
STHS	98.9	21	ePg	10:36:50.80	0.19
			eSg	37:03.90	-0.48
A336	136.2	253	Pn	10:36:57.20	0.23
			Sn	37:15.13	-0.57

1060.

2019-12-10 time: 15:21:59.27 UTC ML= 1.8
lat: 48.171N lon: 19.050E h= 12.3 km
erh= 1.4km erz= 1.1km
nr= 22 gap= 56 rms=0.50
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr mn sec	res
A336	7.9	331	Pg	15:22:01.78	-0.11
			Sg	22:03.00	-0.93
PENC	45.7	158	Pg	15:22:08.40	0.67
			Sg	22:14.02	-0.30
A338	54.8	252	Pg	15:22:09.62	0.32
			Sg	22:16.69	-0.44
SRO	67.9	234	Pg	15:22:11.68	0.09
PSZ	68.9	114	Pg	15:22:12.37	0.59
			Sg	22:21.02	-0.51
PKSG	99.8	210	P*	15:22:17.16	0.12
KECS	111.9	72	Sn	15:22:33.11	-0.72
LANS	113.2	16	Pn	15:22:19.34	0.50
			Sn	22:33.29	-0.81
MODS	133.5	280	ePn	15:22:21.70	0.32
			eSn	22:37.90	-0.72

Hypocenter Parameters

1061.

2019-12-11 time: 8:20:02.53 UTC ML= 1.5
lat: 47.251N lon: 17.637E h= 0.0 km
erh= 1.9km erz= 2.5km
nr= 13 gap= 90 rms=0.72
Locality: Némethánya
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
MPLH	11.6	219	Pg	8:20:05.69	1.09
			Sg	20:05.60	-0.62
EGYH	29.6	309	Sg	8:20:11.95	0.02
TIH	43.6	153	Sg	8:20:16.17	-0.21
PKSG	59.1	75	Sg	8:20:21.39	0.07
SRO	80.7	39	Sg	8:20:27.84	-0.33
SOP	94.5	301	Sg	8:20:31.85	-0.71
KOVH	134.0	165	Sn	8:20:45.21	0.42
PENC	137.7	64	Sn	8:20:45.69	0.09
MORH	138.4	146	Sn	8:20:44.12	-1.65
PKSM	138.7	146	Sn	8:20:44.94	-0.89
PKSV	158.6	163	Sn	8:20:50.98	0.73
PSZ	185.3	66	Sn	8:20:56.95	0.76

1062.

2019-12-11 time: 10:08:38.32 UTC ML= 1.7
lat: 47.851N lon: 19.122E h= 0.0 km
erh= 2.4km erz= 347km
nr= 6 gap=228 rms=0.21
Locality: Szendehegy
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PENC	13.7	120	Pg	10:08:40.73	-0.03
			Sg	08:42.11	-0.56
A336	43.4	348	Pg	10:08:46.13	0.06
			Sg	08:51.86	-0.26
PSZ	58.2	83	Pg	10:08:48.90	0.19
			Sg	08:57.02	0.20

1063.

2019-12-11 time: 10:13:03.38 UTC ML= 1.0
lat: 47.738N lon: 19.981E h= 0.0 km
erh= ---km erz= ---km
nr= 4 gap=220 rms=0.48
Locality: Karácsond
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	21.0	342	Pg	10:13:07.73	0.59
			Sg	13:09.65	-0.42
PENC	52.8	276	Sg	10:13:19.80	-0.36
ABAH	112.5	57	Sg	10:13:38.74	-0.40

1064.

2019-12-11 time: 11:38:17.69 UTC ML= 1.9
lat: 48.176N lon: 19.846E h= 0.0 km
erh= 4.1km erz= 6.3km
nr= 13 gap=163 rms=0.75
Locality: Somoskő
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	28.8	173	Pg	11:38:23.48	0.64
			Sg	38:27.52	0.66
KECS	58.5	54	Pg	11:38:28.31	0.17
			Sg	38:36.17	-0.12
ABAH	104.4	83	Pg	11:38:37.23	0.89
			Sg	38:49.20	-1.68
NIE	142.5	14	Pn	11:38:43.44	0.95
			Sn	39:00.64	-1.19

Hypocenter Parameters

1065.

2019-12-12 time: 7:40:47.10 UTC ML= 1.2
lat: 47.299N lon: 17.673E h= 0.0 km
erh= 1.2km erz= 341km
nr= 8 gap=142 rms=0.24
Locality: Bakonykoppány
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
MPLH	17.5	215	Pg	7:40:50.08	-0.14
			Sg	40:52.78	0.12
PKST	27.7	99	Pg	7:40:52.14	0.09
			Sg	40:56.50	0.59
EGYH	28.9	297	Pg	7:40:52.16	-0.10
			Sg	40:56.67	0.39
PKSG	55.2	79	Pg	7:40:56.87	-0.09
			Sg	41:04.17	-0.49

1066.

2019-12-12 time: 9:44:57.89 UTC ML= 1.3
lat: 48.000N lon: 20.364E h= 0.0 km
erh= 1.3km erz= 247km
nr= 9 gap=192 rms=0.19
Locality: Szarvaskő
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PSZ	36.2	256	Pg	9:45:04.28	-0.07
			Sg	45:09.54	0.15
KECS	54.5	10	Pg	9:45:07.80	0.18
			Sg	45:15.12	-0.09
ABAH	73.0	63	Sg	9:45:20.83	-0.27

1067.

2019-12-12 time: 10:21:25.87 UTC ML= 1.6
lat: 48.573N lon: 20.726E h= 0.0 km
erh= 2.7km erz= 950km
nr= 11 gap=107 rms=0.77
Locality: Komjáti
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	20.4	241	Pg	10:21:29.67	0.15
			Sg	21:32.11	-0.25
ABAH	48.9	129	Pg	10:21:35.34	0.73
			Sg	21:40.96	-0.46
PSZ	95.5	220	Pg	10:21:43.25	0.32
			Sg	21:55.88	-0.35
NIE	98.8	342	Pg	10:21:44.63	1.12
STHS	101.1	22	ePg	10:21:43.00	-0.93
			Sg	21:54.60	-3.42*
LANS	112.5	305	ePg	10:21:45.20	-0.76
			eSg	21:59.30	-2.32

1068.

2019-12-12 time: 10:25:00.98 UTC ML= 1.9
lat: 47.689N lon: 18.582E h= 0.0 km
erh= 2.6km erz= 3.2km
nr= 18 gap=127 rms=1.16
Locality: Nagysáp
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
SRO	24.4	304	Pg	10:25:05.19	-0.16
			Sg	25:07.07	-1.68
PKSG	36.0	204	Pg	10:25:08.14	0.72
			Sg	25:12.95	0.51
PKST	63.2	221	Pg	10:25:12.72	0.45
			Sg	25:19.89	-1.17

Földrengés paraméterek

MPLH	97.5	234	Pg	10:25:19.94	1.54
			Sg	25:33.02	1.03
EGYH	98.8	252	Pg	10:25:19.89	1.25
			Sg	25:33.43	1.03
PSZ	101.6	75	Sg	10:25:34.28	1.01
MODS	123.6	308	ePg	10:25:22.50	-0.55
			eSg	25:37.20	-3.06
PKB4	132.6	179	Sn	10:25:40.97	-1.96
MORH	163.8	178	Pn	10:25:28.22	-0.23
			Sn	25:47.66	-2.21
PKSM	164.3	178	Pn	10:25:28.32	-0.18
			Sn	25:47.35	-2.62

1069.

2019-12-12 time: 10:34:37.33 UTC ML= 1.8
lat: 48.353N lon: 19.878E h= 10.0 km
erh= 1.8km erz= 3.2km
nr= 16 gap= 83 rms=0.60
Locality: Slovakia
Comments:

sta	dist	azm	phase	hr mn sec	res
KECS	47.2	72	Pg	10:34:46.21	0.26
			Sg	34:52.93	0.25
PSZ	48.3	179	Pg	10:34:46.11	-0.03
			Sg	34:52.52	-0.49
A336	66.6	259	Pg	10:34:49.97	0.61
			Sg	34:58.05	-0.69
LANS	93.7	341	Sg	10:35:05.73	-1.57
ABAH	101.1	94	Sg	10:35:09.19	-0.44
NIE	122.8	15	Pn	10:35:00.23	1.83
			Sn	35:13.97	-0.86

1070.

2019-12-12 time: 12:02:31.73 UTC ML= 1.6
lat: 46.121N lon: 18.063E h= 0.0 km
erh= 1.5km erz= 459km
nr= 16 gap=191 rms=0.40
Locality: Bükkösd
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	4.6	142	Pg	12:02:32.60	0.05
			Sg	02:33.74	0.55
PKSV	29.7	150	Pg	12:02:37.02	-0.01
			Sg	02:40.93	-0.24
PKSM	45.8	77	Pg	12:02:39.93	0.03
			Sg	02:45.84	-0.43
MORH	46.1	77	Pg	12:02:39.89	-0.07
			Sg	02:46.20	-0.17
PKS9	54.4	18	Pg	12:02:41.62	0.18
			Sg	02:49.33	0.32
PKB4	58.9	45	Pg	12:02:41.96	-0.29
			Sg	02:49.59	-0.87
PKB5	73.8	44	Pg	12:02:46.07	1.16
MPLH	123.3	341	Pg	12:02:53.71	-0.04
			Sg	03:09.11	-1.82
PKST	126.5	359	Pg	12:02:54.12	-0.20

1071.

2019-12-12 time: 12:14:58.53 UTC ML= 1.5
lat: 46.114N lon: 18.051E h= 0.0 km
erh= 1.2km erz= 221km
nr= 8 gap=251 rms=0.16
Locality: Bükkösd
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KOVH	4.8	127	Pg	12:14:59.50	0.12
			Sg	15:00.68	0.64
PKSM	46.9	77	Pg	12:15:06.78	-0.12
			Sg	15:13.33	-0.10

Földrengés paraméterek

MORH	47.2	76	Pg	12:15:06.81	-0.15
			Sg	15:13.50	-0.03
PKS9	55.4	18	Pg	12:15:08.42	0.00
			Sg	15:16.39	0.25

1072.

2019-12-12 time: 13:14:55.85 UTC ML= 1.7
lat: 47.691N lon: 20.292E h= 0.8 km
erh= 3.6km erz=59.7km
nr= 12 gap=160 rms=0.69
Locality: Erdőtelek
Comments:

sta	dist	azm	phase	hr mn sec	res
PSZ	39.1	310	Pg	13:15:02.94	0.11
			Sg	15:08.57	0.29
PENC	76.6	278	Pg	13:15:10.71	1.17
			Sg	15:19.75	-0.46
ABAH	97.6	46	Pg	13:15:13.56	0.28
			Sg	15:25.11	-1.76

1073.

2019-12-13 time: 11:33:53.50 UTC ML= 1.4
lat: 47.528N lon: 18.441E h= 0.0 km
erh= 3.0km erz= 5.1km
nr= 12 gap= 91 rms=1.07
Locality: Vértessomló
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	15.6	194	Pg	11:33:56.15	-0.14
			Sg	33:57.97	-0.50
SRO	33.1	343	ePg	11:34:01.20	1.78
			eSg	34:04.60	0.57
PKST	42.9	226	Sg	11:34:08.43	1.29
BUD	44.2	96	Sg	11:34:08.16	0.62
A336	88.8	28	Sg	11:34:20.26	-1.46
PSZ	117.3	68	Sg	11:34:31.09	0.29
MODS	128.1	317	ePg	11:34:15.90	-0.47
			eSg	34:31.50	-2.71
MORH	146.7	174	Sn	11:34:38.44	-0.14
PKSM	147.1	174	Sn	11:34:36.83	-1.85

1074.

2019-12-13 time: 16:57:44.22 UTC ML= 2.9
lat: 47.436N lon: 18.842E h= 9.2 km
erh= 0.8km erz= 0.8km
nr= 72 gap= 28 rms=0.57
Locality: Sósikút
Comments: felt 4 EMS

sta	dist	azm	phase	hr mn sec	res
PBUD	13.2	76	Pg	16:57:47.40	0.31
			Sg	57:49.61	0.27
BUD	14.7	69	PgD	16:57:46.52	-0.79
			Sg	57:48.53	-1.19
PKSG	34.4	262	PgD	16:57:50.94	0.36
			Sg	57:54.83	-0.72
PKS7	49.5	151	PgD	16:57:53.80	0.59
			Sg	58:00.70	0.48
PENC	51.4	40	Pg	16:57:53.24	-0.31
			Sg	57:59.48	-1.34
SRO	57.8	317	Pg	16:57:55.19	0.52
			Sg	58:01.49	-1.33
PKST	64.1	252	PgU	16:57:55.60	-0.19
			Sg	58:02.64	-2.18
A338	74.1	330	Pg	16:57:58.42	0.86
			Sg	58:08.02	0.06
A336	89.4	8	PgD	16:57:59.97	-0.30
PKB2	90.0	160	Pg	16:58:00.61	0.24
TIH	93.4	230	PgU	16:58:00.44	-0.55
PKB5	93.9	185	PgD	16:58:01.18	0.12

Hypocenter Parameters

PSZ	95.5	56	PgD	16:58:00.71	-0.64
			Sg	58:12.22	-2.49*
PKSN	98.1	128	Pg	16:58:02.51	0.69
MPLH	102.9	253	PgD	16:58:02.89	0.23
PKS9	103.7	204	Pg	16:58:02.59	-0.21
PKB4	106.0	190	Pg	16:58:02.61	-0.61
PKS6	108.0	149	P*	16:58:03.27	-0.26
BSZH	108.7	98	Pn	16:58:04.51	0.88
PKS2	108.7	165	Pn	16:58:03.35	-0.28
EGYH	114.0	269	Pn	16:58:05.36	1.07
PKB3	115.7	167	Pn	16:58:04.97	0.46
A337	119.5	319	Pn	16:58:05.75	0.77
MORH	136.5	186	Pn	16:58:06.21	-0.89
PKSM	137.0	186	Pn	16:58:06.22	-0.94
MODS	156.7	312	ePn	16:58:09.90	0.28
SMOL	159.7	319	Pn	16:58:10.31	0.32
KOVH	160.2	201	Pn	16:58:09.14	-0.92
KECS	169.2	47	ePn	16:58:12.60	1.42
			eSn	58:32.50	0.30
SOP	174.1	279	Pn	16:58:12.01	0.22
RONA	193.8	279	Pn	16:58:14.38	0.13
			Sn	58:36.50	-1.17
LANS	196.2	14	ePn	16:58:15.00	0.45
			eSn	58:37.80	-0.40
ABAH	203.3	62	Pn	16:58:15.79	0.37
CONA	230.4	284	Pn	16:58:18.98	0.17
STRR	251.1	121	PnC	16:58:21.18	-0.21
ARSA	251.7	265	Pn	16:58:22.30	0.84
VRAC	266.7	321	PnC	16:58:24.35	1.02
GROS	276.5	247	Pn	16:58:24.71	0.16
			Sn	58:54.53	-1.48
MORC	277.4	340	PnD	16:58:26.17	1.50
			Sn	58:55.50	-0.72
STHS	283.0	39	ePn	16:58:27.30	1.93
BZS	293.6	134	Pn	16:58:26.41	-0.28
SOKA	301.5	254	Sn	16:58:59.88	-1.68*
DRGR	302.3	104	Pn	16:58:28.45	0.68*
KRLC	330.3	333	ePn	16:58:33.00	1.73*
			eSn	59:07.70	-0.26*
MARR	335.7	105	PnD	16:58:32.64	0.70*
			Sn	59:07.80	-1.37*
OBKA	342.6	252	Sn	16:59:10.00	-0.69*
DPC	373.1	330	ePn	16:58:37.80	1.20*
GZR	378.2	127	PnD	16:58:36.96	-0.28*
HRER	396.1	136	PnD	16:58:40.02	0.55*
KHC	433.8	296	ePn	16:58:44.80	0.63*
			eSn	59:29.20	-1.73*
BOVS	478.0	152	PnD	16:58:49.44	-0.24*
BURA	480.5	88	PnD	16:58:49.64	-0.35*

1075.

2019-12-16 time: 10:43:54.36 UTC ML= 1.2
lat: 47.095N lon: 17.947E h= 0.0 km
erh= 2.8km erz= 403km
nr= 8 gap=206 rms=0.29
Locality: Kádárta
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKST	19.4	20	Pg	10:43:57.64	-0.18
			Sg	44:00.24	-0.29
PKSG	47.1	45	Sg	10:44:09.61	0.29
MORH	111.3	151	Pg	10:44:14.54	0.30
			Sg	44:29.76	0.01
PKSM	111.6	152	Pg	10:44:14.59	0.29
			Sg	44:29.30	-0.54
KOVH	112.5	174	Sg	10:44:29.81	-0.31

Hypocenter Parameters

1076.

2019-12-16 time: 12:04:16.30 UTC ML= 1.5
lat: 48.593N lon: 20.894E h= 0.0 km
erh= 2.8km erz= 5.9km
nr= 10 gap=127 rms=0.80
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	32.5	248	Pg	12:04:22.68	0.57
			Sg	04:25.45	-1.19
ABAH	41.8	142	Pg	12:04:24.15	0.40
			Sg	04:29.50	-0.07
STHS	95.1	16	ePg	12:04:32.50	-0.78
			eSg	04:44.90	-1.63
NIE	101.2	335	Pg	12:04:35.37	1.00
			Sg	04:47.43	-1.04
PSZ	105.5	225	Sg	12:04:49.31	-0.54
A336	145.9	254	Sn	12:05:02.04	0.84

1077.

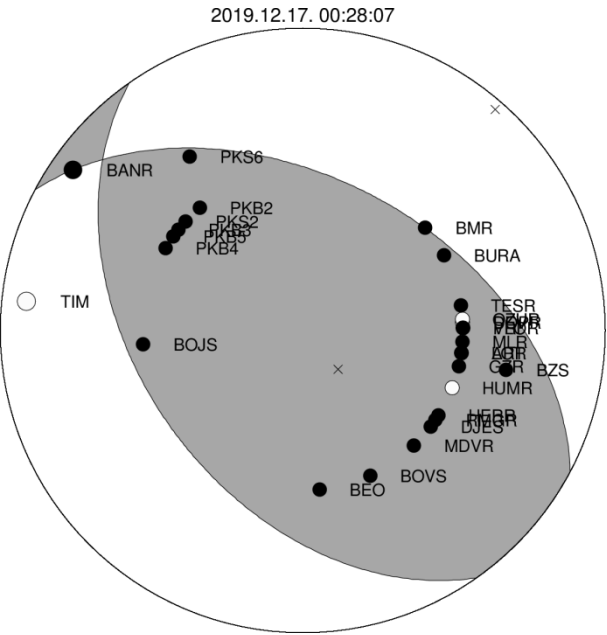
2019-12-17 time: 0:28:07.47 UTC ML= 3.6
lat: 45.800N lon: 20.299E h= 11.1 km
erh= 1.1km erz= 1.1km
nr= 70 gap= 66 rms=0.59
Locality: Serbia
Comments:

sta	dist	azm	phase	hr mn sec	res
TIM	72.0	96	PgD	0:28:20.58	0.10
			Sg	28:30.60	-0.04
BANR	80.0	125	PgC	0:28:22.22	0.32
			Sg	28:33.10	-0.06
FRGS	83.2	207	Pg	0:28:22.38	-0.07
			Sg	28:33.08	-1.06
BZS	104.6	101	P*U	0:28:25.39	-0.69
			S*	28:37.76	-2.84
PKS6	105.5	327	P*U	0:28:26.34	0.12
			S*	28:39.34	-1.51
BEO	109.4	174	PnU	0:28:26.76	0.04
			Sn	28:40.47	-1.26
PKB3	110.0	309	PnU	0:28:26.85	0.05
			Sn	28:40.42	-1.45
PKS2	113.9	313	PnU	0:28:27.50	0.22
PKSN	126.4	345	Pn	0:28:29.43	0.58
			Sn	28:45.64	0.12
PKB2	126.9	320	PnU	0:28:28.68	-0.22
			Pn	28:44.49	-1.13
MORH	136.3	290	Pn	0:28:29.98	-0.09
			Sn	28:48.25	0.55
PKSM	136.4	290	Pn	0:28:30.00	-0.08
			Sn	28:47.31	-0.41
PKB5	149.6	306	PnU	0:28:31.70	-0.03
			Sn	28:53.06	2.40
PKB4	152.2	301	PnU	0:28:31.97	-0.08
			Sn	28:50.92	-0.31
MDVR	158.4	136	PnC	0:28:32.84	0.01
PKSV	159.3	274	Pn	0:28:33.01	0.06
PKS7	164.0	328	Sn	0:28:55.99	2.14
KOVH	173.6	281	Pn	0:28:34.45	-0.27
			Sn	28:58.90	2.93*
PKS9	178.9	299	Pn	0:28:35.51	0.13
			Sn	29:00.68	3.53*
HERR	194.8	122	PnC	0:28:37.84	0.47
			Sn	29:01.40	0.71
GZR	198.5	103	PnC	0:28:38.02	0.19
			Sn	29:03.00	1.49
DEV	202.5	87	PnC	0:28:38.60	0.27
BUD	211.1	332	Pn	0:28:39.24	-0.17
LTVH	214.7	35	Pn	0:28:39.11	-0.74
DRGR	216.1	59	Pn	0:28:39.29	-0.73
DJES	217.7	127	PnC	0:28:39.91	-0.31
TIH	222.0	303	Pn	0:28:40.96	0.20

Földrengés paraméterek

BBLs	225.9	198	Pn	0:28:42.26	1.02
RMGR	226.4	124	PnC	0:28:42.69	1.38
PKSG	229.6	320	Pn	0:28:41.71	0.00
PENC	234.6	341	Pn	0:28:42.62	0.29
PSZ	237.5	353	Pn	0:28:42.15	-0.55
MARR	238.3	66	Sn	0:29:12.40	2.06
SRE	260.9	119	Sn	0:29:16.10	0.75
BOVS	265.1	155	PnC	0:28:46.23	0.10
LOT	273.4	98	PnD	0:28:47.89	0.72
KECS	298.7	3	ePn	0:29:02.70	12.38*
			eSn	29:11.20	-12.54*
BMR	321.1	50	PnC	0:28:53.33	0.22*
ARR	341.7	98	PnC	0:28:55.82	0.14*
MODS	366.8	321	ePn	0:28:58.90	0.08*
			eSn	29:56.50	17.63*
RONA	371.7	305	Pn	0:28:59.90	0.47*
CRES	376.4	270	Pn	0:28:55.76	-0.25*
LANS	377.8	350	ePn	0:29:04.60	4.42*
			eSn	29:30.40	-10.90*
HUMR	394.2	111	PnD	0:29:03.06	0.82*
BOJS	394.8	265	iPnC	0:28:51.00	-11.31*
			iSn	28:53.02	-52.06*
DOPR	395.5	87	PnD	0:29:03.99	1.59*
ARSA	400.4	294	Pn	0:29:03.27	0.27*
STHS	408.4	10	ePn	0:29:04.00	0.00*
PERS	410.6	283	Pn	0:29:04.85	0.58*
CONA	412.9	305	Pn	0:29:05.12	0.55*
SOKA	417.8	284	Pn	0:29:04.88	-0.29*
			Sn	29:49.67	-0.51*
OZUR	426.7	86	PnD	0:29:07.21	0.92*
BURA	426.8	62	PnC	0:29:06.69	0.40*
MLR	441.5	94	PnC	0:29:09.39	1.26*
OBKA	451.2	280	Pn	0:29:10.02	0.68*
			Sn	30:11.76	14.17*
OKC	477.0	340	ePn	0:29:13.70	1.14*
PLOR	493.5	89	PnD	0:29:15.31	0.69*
TESR	496.8	81	PnC	0:29:16.31	1.28*
VRI	499.5	89	PnC	0:29:16.56	1.20*
MOA	513.7	296	Pn	0:29:17.06	-0.07*
			Sn	30:09.64	-1.83*
TREC	531.3	317	eSn	0:30:12.00	-3.37*
KRLC	543.2	331	ePn	0:29:24.70	3.89*
BIOA	550.8	292	Pn	0:29:21.82	0.07*
			Sn	30:20.15	0.46*
KBA	553.1	285	Pn	0:29:21.54	-0.50*
			Sn	30:19.61	-0.59*
DPC	586.4	330	ePn	0:29:29.50	3.30*
ABTA	609.4	280	Pn	0:29:31.18	2.11*
			Sn	30:33.31	0.60*
KHC	627.7	306	ePn	0:29:34.70	3.36*
			eSn	30:34.10	-2.66*
WTTA	684.3	284	Pn	0:29:40.81	2.41*
			Sn	30:48.60	-0.73*

Földrengés paraméterek



1078.

2019-12-17 time: 7:24:35.06 UTC ML= 0.6
lat: 47.285N lon: 18.367E h= 0.0 km
erh= 2.0km erz= 469km
nr= 5 gap=162 rms=0.22
Locality: Magyaralmás
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
PKSG	12.0	8	Pg	7:24:36.93	-0.28
			Sg	24:39.26	0.37
PKST	25.4	264	Pg	7:24:39.56	-0.02
			Sg	24:43.30	0.18
PKSM	121.1	170	Sg	7:25:13.62	0.08

1079.

2019-12-17 time: 12:26:15.84 UTC ML= 1.6
lat: 48.574N lon: 19.249E h= 0.0 km
erh= 7.0km erz= 994km
nr= 6 gap=250 rms=0.61
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
A336	42.2	206	Sg	12:26:28.35	-0.89
			Sg	12:26:43.15	-0.39
PENC	87.2	178	Sg	12:26:31.85	0.43
			Sg	26:44.54	0.97
KECS	91.9	96	Pg	12:26:32.39	0.15
			Sg	26:44.18	-0.86

1080.

2019-12-18 time: 10:07:01.56 UTC ML= 1.8
lat: 48.582N lon: 20.783E h= 0.0 km
erh= 2.0km erz= 1.8km
nr= 8 gap=240 rms=0.20
Locality: Tornanádaska
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.5	243	Pg	10:07:05.83	-0.11
			Sg	07:09.59	0.23
ABAH	46.4	133	Pg	10:07:10.10	0.25
			Sg	07:15.86	-0.45
PSZ	99.0	222	Pg	10:07:19.35	0.12

Hypocenter Parameters

		Sg	07:32.80	-0.22	
A336	137.6	254	Pn	10:07:25.66	-0.10
A338	191.0	251	Sn	10:07:56.45	-0.02

1081.

2019-12-19 time: 8:52:15.06 UTC ML= 1.7
lat: 48.585N lon: 20.779E h= 0.0 km
erh= 1.5km erz= 2.2km
nr= 11 gap=127 rms=0.40
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	24.4	242	Pg	8:52:19.91	0.49
			Sg	52:21.97	-0.86
ABAH	46.9	133	Pg	8:52:23.65	0.23
			Sg	52:29.66	-0.29
STHS	98.5	20	ePg	8:52:32.40	-0.25
			eSg	52:46.30	-0.08
PSZ	99.1	222	Pg	8:52:32.84	0.09
			Sg	52:46.38	-0.16
A336	137.5	253	Sn	8:52:57.73	-0.36
TRPA	139.9	111	Pn	8:52:39.91	0.37
			Sn	52:56.81	-1.82

1082.

2019-12-20 time: 10:11:22.68 UTC ML= 1.5
lat: 48.563N lon: 20.765E h= 0.0 km
erh= 2.3km erz= 4.8km
nr= 11 gap=110 rms=0.71
Locality: Tornanádaska
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	22.5	247	Pg	10:11:26.76	0.07
			Sg	11:29.43	-0.39
ABAH	46.0	130	Pg	10:11:30.68	-0.21
			Sg	11:37.45	0.16
PSZ	96.5	222	Pg	10:11:40.43	0.51
			Sg	11:53.53	0.17
NIE	100.8	341	Pg	10:11:41.98	1.31
			Sg	11:53.58	-1.13
STHS	101.2	20	ePg	10:11:40.00	-0.75
			eSg	11:51.30	-3.55*
A336	135.8	254	Sn	10:12:04.32	-1.02

1083.

2019-12-20 time: 12:21:57.25 UTC ML= 1.8
lat: 48.780N lon: 20.834E h= 0.0 km
erh= 6.6km erz= ***km
nr= 6 gap=179 rms=0.92
Locality: Slovakia
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
KECS	41.8	218	Pg	12:22:05.73	1.02
			Sg	22:09.97	-0.56
ABAH	61.6	151	Pg	12:22:08.94	0.70
			Sg	22:15.22	-1.60
NIE	80.6	332	Sg	12:22:22.07	-0.81
PSZ	118.4	216	Sg	12:22:34.22	-0.67

1084.

2019-12-21 time: 14:51:47.50 UTC ML= 2.1
lat: 48.637N lon: 22.366E h= 1.9 km
erh= 4.0km erz= 3.4km
nr= 11 gap=211 rms=0.83
Locality: Ukraine
Comments:

Hypocenter Parameters

sta	dist	azm	phase	hr mn sec	res
TRPA	57.8	167	Pg	14:51:58.08	0.25
			Sg	52:05.52	-0.36
ABAH	91.6	246	Pg	14:52:04.00	0.15
			Sg	52:16.65	0.04
STHS	119.4	317	ePg	14:52:07.50	-1.33
			eSg	52:24.30	-1.16
NIE	173.5	300	Pn	14:52:17.65	1.73
			Sn	52:38.46	0.37
PSZ	200.1	246	Sn	14:52:42.89	-1.11
DRGR	206.8	173	Pn	14:52:19.68	-0.39
			Sn	52:46.88	1.40

1085.

2019-12-23 time: 6:56:30.77 UTC ML= 2.0
lat: 46.036N lon: 22.810E h= 0.0 km
erh= 1.4km erz= 2.0km
nr= 27 gap= 69 rms=0.74
Locality: Romania
Comments: probably explosion

sta	dist	azm	phase	hr mn sec	res
DEV	18.5	157	PgD	6:56:34.52	0.45
			Sg	56:37.20	0.55
GZR	71.5	182	PgC	6:56:43.95	0.40
			Sg	56:53.30	-0.21
MARR	75.0	18	PgC	6:56:44.38	0.22
			Sg	56:53.80	-0.80
DRGR	84.3	355	Pg	6:56:46.01	0.18
			Sg	56:56.05	-1.52
SIRR	92.5	286	PgC	6:56:47.65	0.36
			Sg	56:59.90	-0.28
CJR	96.6	39	PgD	6:56:49.14	1.11
			Sg	57:01.10	-0.39
LOT	99.3	131	PgC	6:56:48.94	0.44
			Sg	57:01.80	-0.53
BZS	103.8	243	Pg	6:56:49.73	0.42
			Sg	57:02.87	-0.90
MDB	122.0	84	Sg	6:57:07.90	-1.66
MESR	124.2	5	Sg	6:57:09.50	-0.76
HERR	132.1	194	PnD	6:56:54.29	0.02
			Sn	57:10.80	-1.80
ARR	160.3	118	PnC	6:56:58.10	0.31
			Sn	57:17.80	-1.07
MDVR	163.8	212	Sn	6:57:19.30	-0.35
ARCR	166.2	45	Pn	6:57:00.36	1.84
			Sn	57:20.63	0.46
DOPR	199.9	92	Sn	6:57:27.60	-0.06
MLR	251.3	104	Sn	6:57:38.20	-0.87

1086.

2019-12-27 time: 0:03:00.63 UTC ML= 1.8
lat: 45.901N lon: 16.042E h= 9.0 km
erh= 1.9km erz= 1.4km
nr= 20 gap=114 rms=0.65
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
PTJ	6.5	269	PgD	0:03:02.50	-0.11
			Sg	03:04.23	0.07
ZAG	8.8	205	PgD	0:03:02.66	-0.22
			Sg	03:03.70	-0.94
CRES	46.2	260	Pg	0:03:09.59	0.56
			Sg	03:15.35	-0.23
KOGS	62.9	15	Pg	0:03:13.62	1.64
			Sg	03:20.16	-0.67
GROS	74.9	326	Pg	0:03:14.75	0.65
			Sg	03:24.09	-0.52
BEHE	84.9	42	Pg	0:03:15.69	-0.19
			Sg	03:26.63	-1.15
PERS	108.4	319	P*	0:03:20.50	0.48
SOKA	116.2	318	Pn	0:03:20.78	-0.22

Földrengés paraméterek

			Sn	03:35.32	-1.56
OBKA	133.6	300	Sn	0:03:40.67	-0.07
KOVH	160.8	83	Pn	0:03:26.99	0.43
			Sn	03:46.62	-0.17
PKSV	171.6	90	Pn	0:03:28.20	0.30
			Sn	03:48.15	-1.03

1087.

2019-12-27 time: 1:01:13.88 UTC ML= 1.0
lat: 45.726N lon: 18.491E h= 0.4 km
erh= 1.5km erz=96.5km
nr= 8 gap=302 rms=0.14
Locality: Croatia
Comments:

sta	dist	azm	phase	hr mn sec	res
PKSV	25.9	314	Pg	1:01:18.41	-0.10
			Sg	01:21.97	-0.14
KOVH	50.4	323	Pg	1:01:23.20	0.31
			Sg	01:29.88	-0.03
PKSM	55.2	12	Pg	1:01:23.71	-0.03
			Sg	01:31.52	0.09
MORH	55.7	12	Pg	1:01:23.73	-0.10
			Sg	01:31.62	0.04

1088.

2019-12-29 time: 4:33:55.75 UTC ML= 1.6
lat: 48.030N lon: 20.659E h= 10.4 km
erh= 1.5km erz= 3.7km
nr= 12 gap=144 rms=0.36
Locality: Kisgyőr
Comments:

sta	dist	azm	phase	hr mn sec	res
KECS	52.1	346	Pg	4:34:05.56	0.33
			Sg	34:12.55	-0.07
ABAH	52.4	56	Pg	4:34:05.02	-0.26
			Sg	34:12.45	-0.26
PSZ	58.4	258	Pg	4:34:05.98	-0.36
			Sg	34:13.88	-0.73
BSZH	86.3	200	Pg	4:34:12.17	0.89
			Sg	34:23.17	-0.22

1089.

2019-12-29 time: 21:02:45.69 UTC ML= 1.6
lat: 47.327N lon: 18.317E h= 11.9 km
erh= 1.7km erz= 1.2km
nr= 21 gap= 98 rms=0.43
Locality: Söréd
Comments:

sta	dist	azm	phase	hr mn sec	res
CSKK	5.8	313	PgU	21:02:48.19	0.13
			Sg	02:49.24	-0.67
PKSG	9.1	38	PgD	21:02:48.55	0.18
			Sg	02:49.97	-0.49
PKST	22.7	251	Pg	21:02:50.19	-0.07
			Sg	02:53.23	-0.60
MPLH	61.4	253	Pg	21:02:57.22	0.37
			Sg	03:05.60	0.04
EGYH	75.1	278	Sg	21:03:09.99	0.14
PKS9	82.3	182	Pg	21:03:00.98	0.44
PKB5	87.4	159	Pg	21:03:01.64	0.20
			Sg	03:13.20	-0.53
PKB4	94.9	167	P*	21:03:03.02	0.26
			S*	03:13.90	-2.18*
PKB2	101.1	136	P*	21:03:04.15	0.45
MORH	126.0	169	Pn	21:03:06.89	-0.03
			Sn	03:22.24	-1.24
PKSM	126.4	169	Pn	21:03:06.79	-0.18
			Sn	03:22.37	-1.20
KOVH	138.7	187	Sn	21:03:26.12	-0.17

Földrengés paraméterek

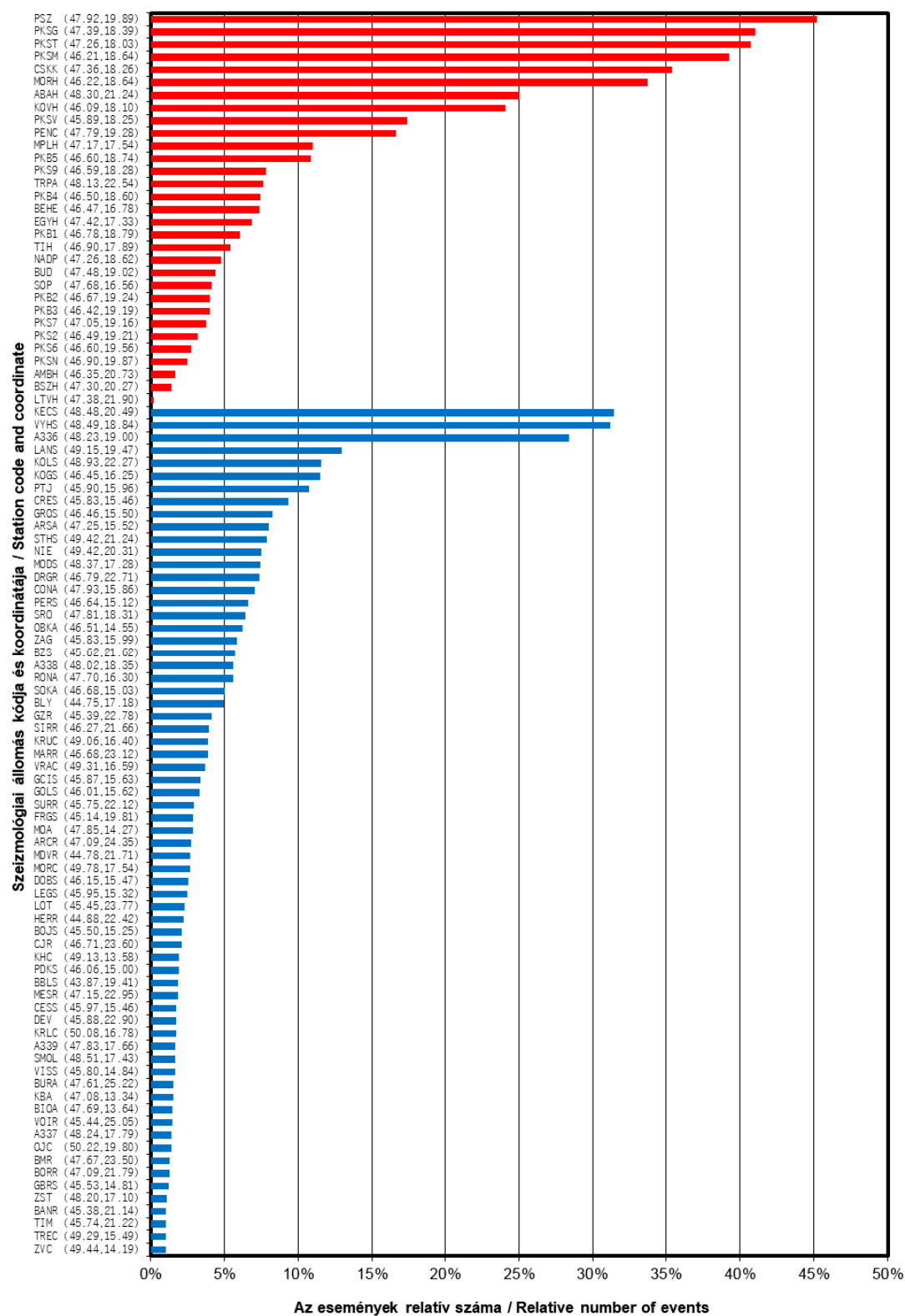
Hypocenter Parameters

PKSV 160.0 182 Sn 21:03:31.72 0.71

1090.

2019-12-31 time: 3:13:25.34 UTC ML= 2.6
lat: 45.906N lon: 18.785E h= 5.6 km
erh= 1.3km erz= 1.2km
nr= 35 gap= 60 rms=0.53
Locality: Homorúd
Comments:

sta	dist	azm	phase	hr	mn	sec	res
PKSM	35.8	342	PgD	3	13	32.18	0.37
			Sg			13:36.44	-0.42
MORH	36.2	342	PgD	3	13	32.21	0.33
			Sg			13:36.72	-0.26
PKSV	41.4	267	Pg	3	13	33.12	0.31
			Sg			13:38.26	-0.37
KOVH	56.9	291	PgU	3	13	35.43	-0.12
			Sg			13:42.30	-1.20
PKB3	65.7	29	Pg	3	13	37.33	0.21
PKB4	67.1	348	PgD	3	13	37.58	0.21
			Sg			13:45.96	-0.80
PKS2	73.1	27	PgD	3	13	38.67	0.24
PKB5	76.7	357	PgD	3	13	39.14	0.06
PKS9	85.2	333	PgU	3	13	40.86	0.27
PKB2	92.4	22	Pg	3	13	41.80	-0.07
PKS6	97.8	38	Pg	3	13	42.51	-0.32
FRGS	117.2	137	PnD	3	13	45.56	-0.72
			Sn			14:00.98	-1.62
PKS7	130.1	13	PnD	3	13	48.34	0.45
			Sn			14:05.12	-0.35
PKST	161.1	339	Pn	3	13	51.45	-0.29
CSKK	166.9	346	Sn	3	14	14.27	0.63
PKSG	168.0	350	Pn	3	13	52.02	-0.58
			Sn			14:14.66	0.80
MPLH	170.0	326	Pn	3	13	52.82	-0.03
BUD	176.4	6	Sn	3	14	16.24	0.51
BLY	179.7	224	Pn	3	13	55.66	1.59
			Sn			14:17.37	0.90
EGYH	201.5	326	Pn	3	13	56.98	0.19
BZS	222.6	98	Pn	3	13	59.14	-0.28
BBLS	231.8	168	Pn	3	14	00.38	-0.18
PSZ	239.2	21	Pn	3	14	06.67	5.19*
RONA	275.5	316	Pn	3	14	05.78	-0.23
			Sn			14:35.44	-2.28*
ARSA	291.3	301	Pn	3	14	07.71	-0.28
			Sn			14:37.56	-3.69*
MODS	297.3	337	ePn	3	14	08.90	0.17
			eSn			14:38.30	-4.26*
KECS	314.2	24	ePn	3	14	12.70	1.86*
CONA	316.5	315	PnD	3	14	10.75	-0.37*
OBKA	333.8	282	Sn	3	14	50.30	-0.37*
KRUC	394.4	333	Pn	3	14	20.45	-0.39*
MOA	406.7	302	Pn	3	14	22.42	0.05*
			Sn			15:06.05	-0.80*
VRAC	412.7	336	Pn	3	14	23.34	0.23*
BIOA	440.2	297	Pn	3	14	26.71	0.16*
			Sn			15:11.37	-2.93*
KRLC	487.2	342	ePn	3	14	33.90	1.50*
DPC	527.1	340	ePn	3	14	38.70	1.31*
KHC	531.4	312	ePn	3	14	38.20	0.28*



3.4. ábra Az egyes állomások részvétele a hipocentrum meghatározásban

Figure 3.4. Participation of individual stations in hypocentre definition

4.

JELENTŐS FÖLDRENGÉSEK 2019-BEN (Magyarországon érezhető földrengések)

2019. február 17.	–	Somogyszob
2019. február 22.	–	Tenk
2019. március 7.	–	Somogyszob
2019. május 17.	–	Budakeszi
2019. július 13.	–	Sóskút
2019. július 22.	–	Jászberény
2019. augusztus 11.	–	Tenk
2019. december 13.	–	Sóskút

AZ INTENZITÁS ELOSZLÁS MEGHATÁROZÁSA

A Magyarországon érezhető földrengések intenzitás eloszlását a ShakeMap program (Field et al., 2003) segítségével modelleztük.

Az intenzitás leírása az *Európai Makroszeizmikus Skála (EMS)* szerint történik, mely részletesen megtalálható Grünthal (1998) munkájában. (A *Melléklet*)

4.

SIGNIFICANT EARTHQUAKES IN 2019

(Earthquakes felt in Hungary)

17 February 2019	–	Somogyszob
22 February 2019	–	Tenk
7 March 2019	–	Somogyszob
17 May 2019	–	Budakeszi
13 July 2019	–	Sóskút
22 July 2019	–	Jászberény
11 August 2019	–	Tenk
13 December 2019	–	Sóskút

METHOD USED FOR ESTIMATION OF INTENSITY

Intensity distribution of earthquakes felt in Hungary has been calculated by ShakeMap program (Field et al., 2003).

The assigned intensities correspond to the *European Macroseismic Scale 1998 (EMS)* edited by Grünthal (1998). (*Appendix A*)

2019. február 17. - Somogyszob / 17 February 2019 - Somogyszob**FÉSZKEPARAMÉTEREK / HYPOCENTER PARAMETERS**

Dátum / Date:	2019/02/17
Kipattanási idő / Origin Time:	14:40:44.30 UTC
Szélesség és hosszúság / Latitude and Longitude:	46.313 N lon: 17.296 E (S.D. 0.7 km)
Mélység / Depth:	15.8 km (S.D. 0.9 km)
Magnitúdó / Magnitude:	2.7 ML
Maximális intenzitás / Maximum Intensity:	4 EMS

LEÍRÁS

Február 17-én délután 2.7 ML magnitúdójú földrengés pattant ki Somogy megyében, Somogyszob közelében. A rengés az epicentrum térségében érezhető volt, intenzitása elérte a 4 EMS fokot.

A rengés számított intenzitás eloszlását a 4.1. ábra mutatja.

$I \geq 3$ (gyenge érezhetőség) becsült területe 1800 km²

$I \geq 4$ (enyhe érezhetőség) becsült területe 20 km²

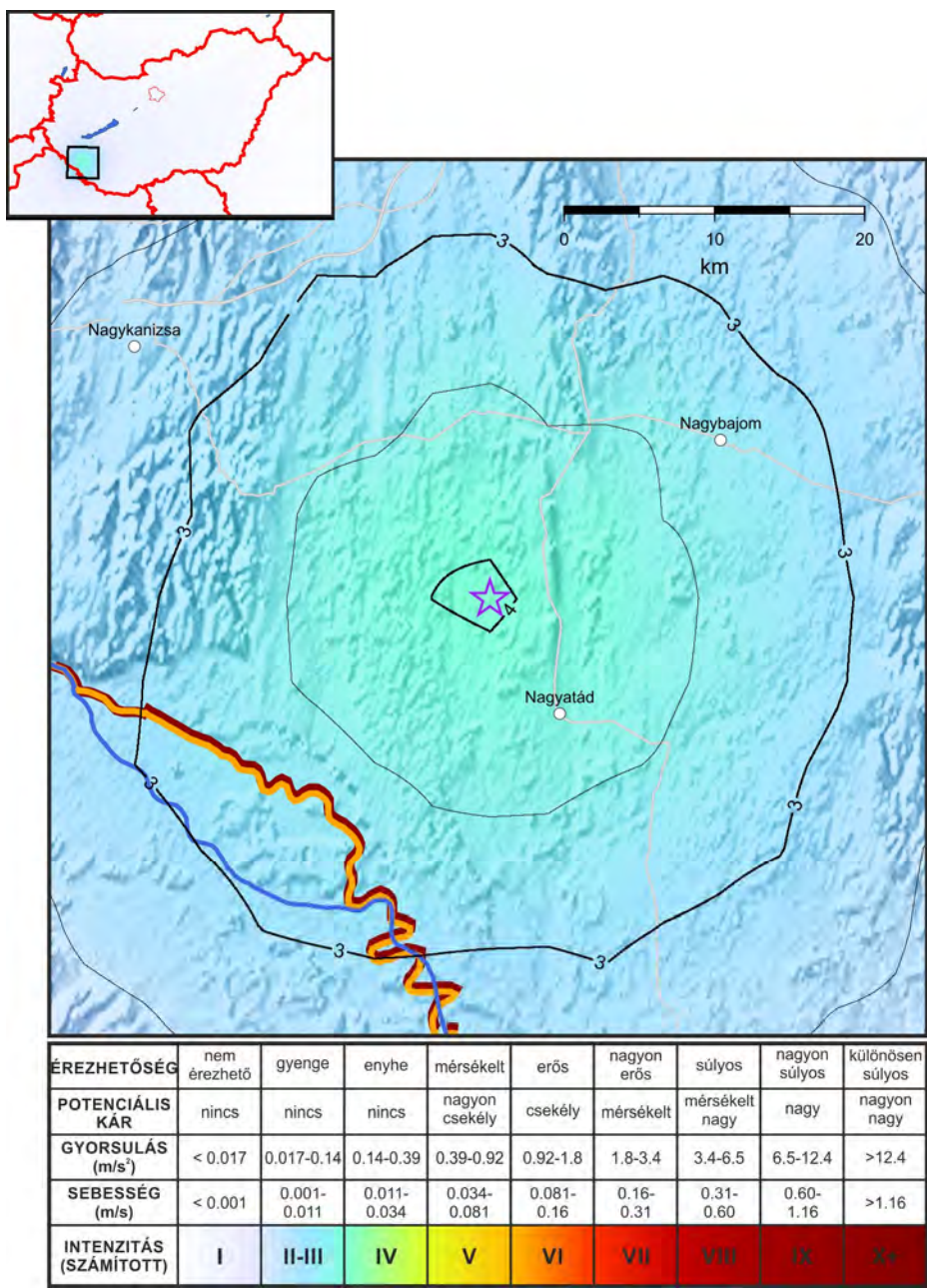
DISCUSSION

On February 17th, a 2.7 ML magnitude earthquake occurred in Somogy County, near to Somogyszob. The quake was reported felt from the epicentral area. The maximum intensity was estimated around 4 EMS at the epicentral area.

Calculated intensity distribution of the event is shown in Figure 4.1.

Estimated area of $I \geq 3$ (perceived shaking: weak) is about 1800 km²

Estimated area of $I \geq 4$ (perceived shaking: light) is about 20 km²



4.1. ábra A 2019. február 17-i, somogyszobi földrengés (14:40 UTC) számított intenzitás eloszlása

Figure 4.1. Instrumental intensity distribution of the Somogyszob earthquake 17th February 2019 (14:40 UTC)

2019. február 22. - Tenk / 22 February 2019 - Tenk**FÉSZKEPARAMÉTEREK / HYPOCENTER PARAMETERS**

Dátum / Date:	2019/02/22
Kipattanási idő / Origin Time:	18:57:52.86 UTC
Szélesség és hosszúság / Latitude and Longitude:	47.665 N 20.320 E (S.D. 1.8 km)
Mélység / Depth:	8.4 km (S.D. 2.2 km)
Magnitúdó / Magnitude:	2.2 ML
Maximális intenzitás / Maximum Intensity:	4 EMS

LEÍRÁS

Február 22-én este 2.2 ML magnitúdójú földrengés pattant ki Heves megyében, Tenk térségében. A rengés az epicentrum térségében érezhető volt, intenzitása elérte a 4 EMS fokot.

A rengés számított intenzitás eloszlását a 4.2. ábra mutatja.

$I \geq 3$ (gyenge érzhetőség) becsült területe 1300 km²

$I \geq 4$ (enyhe érzhetőség) becsült területe 200 km²

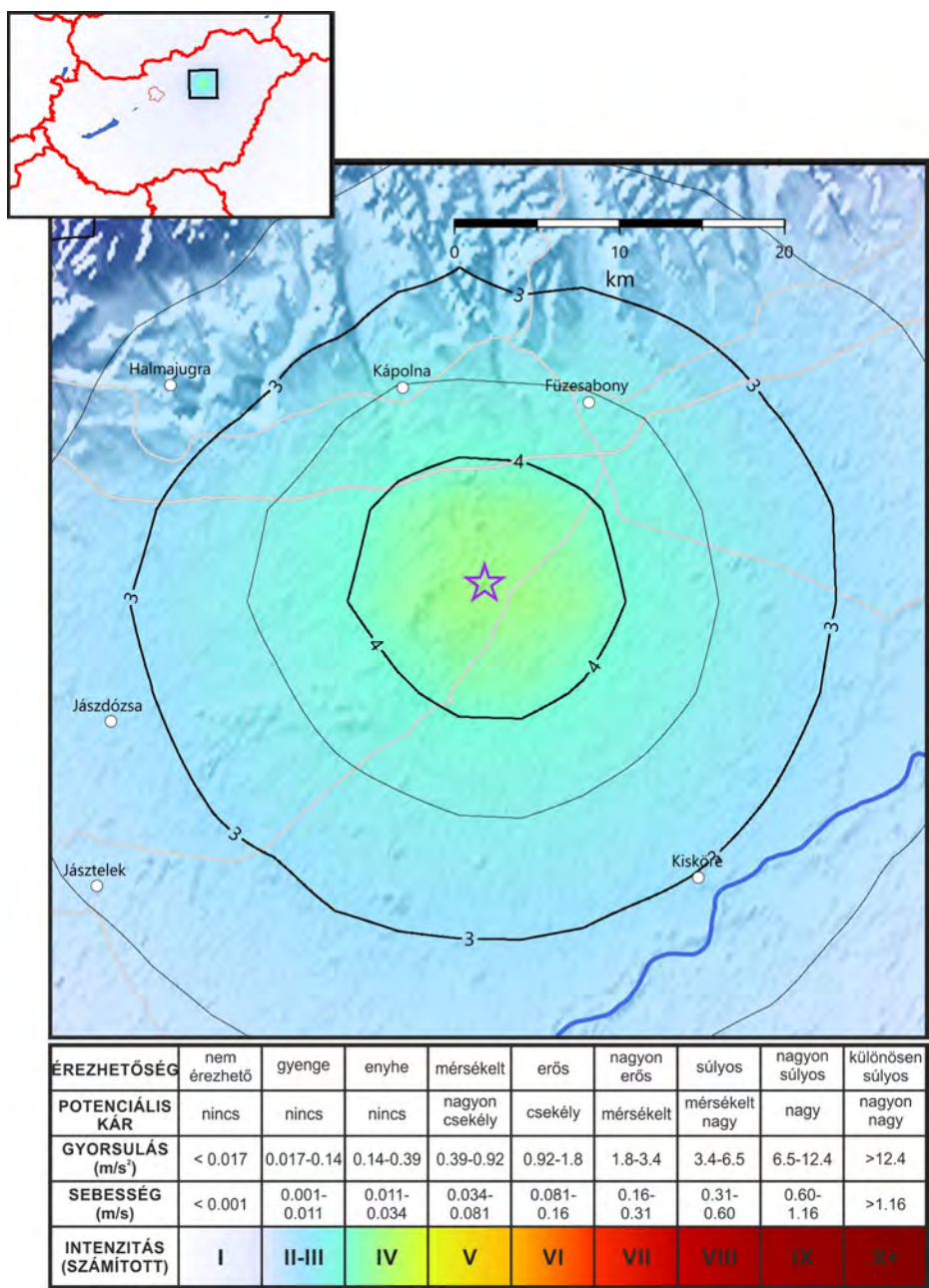
DISCUSSION

In the evening of February 22nd, a 2.2 ML magnitude earthquake occurred in the surroundings of Tenk, Heves County. The quake was reported felt from the epicentral area. The maximum intensity was estimated around 4 EMS at the epicentral area.

Calculated intensity distribution of the event is shown in Figure 4.2.

Estimated area of $I \geq 3$ (perceived shaking: weak) is about 1300 km²

Estimated area of $I \geq 4$ (perceived shaking: light) is about 200 km²



4.2. ábra A 2019. február 22-i, tenki földrengés (18:57 UTC) számított intenzitás eloszlása

Figure 4.2. Instrumental intensity distribution of the Tenk earthquake 22nd February 2019 (18:57 UTC)

2019. március 7. - Somogyszob / 7 March 2019 - Somogyszob**FÉSZKEPARAMÉTEREK / HYPOCENTER PARAMETERS**

Dátum / Date:	2019/03/07
Kipattanási idő / Origin Time:	19:07:54.24 UTC
Szélesség és hosszúság / Latitude and Longitude:	46.306 N 17.303 E (S.D. 0.8 km)
Mélység / Depth:	17.9 km (S.D. 0.8 km)
Magnitúdó / Magnitude:	4.0 ML
Maximális intenzitás / Maximum Intensity:	5 EMS

LEÍRÁS

A február 17-i rengést követően március 7-én este újabb, 4.0 ML magnitúdójú földrengés volt érezhető Somogy megyében, Somogyszob közelében. A rengés intenzitása az epicentrum térségében elérte az 5 EMS fokot.

A rengés számított intenzitás eloszlását a 4.3. ábra mutatja.

$I \geq 3$ (gyenge érzhetőség) becsült területe 9700 km²

$I \geq 4$ (enyhe érzhetőség) becsült területe 200 km²

$I \geq 5$ (mérsékelt érzhetőség) becsült területe 5 km²

DISCUSSION

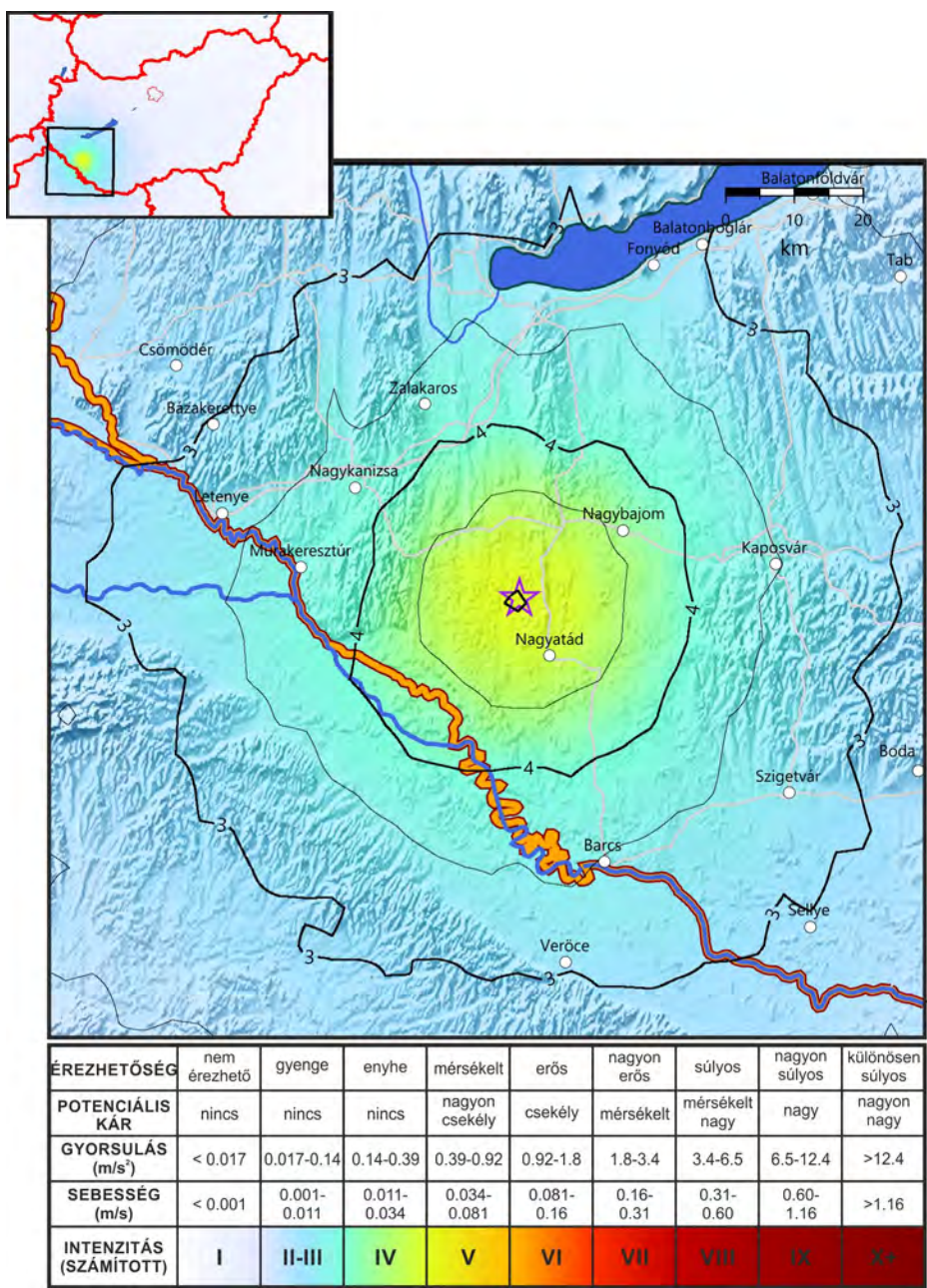
Following the February 17th earthquake, another 4.0 ML quake was reported felt from Somogy County, near to Somogyszob. The quake was somewhat larger than the previous one, the maximum intensity was estimated around 5 EMS at the epicentral area.

Calculated intensity distribution of the event is shown in Figure 4.3.

Estimated area of $I \geq 3$ (perceived shaking: weak) is about 9700 km²

Estimated area of $I \geq 4$ (perceived shaking: light) is about 200 km²

Estimated area of $I \geq 5$ (perceived shaking: moderate) is about 5 km²



4.3. ábra A 2019. március 7-i, somogyszobi földrengés (19:07 UTC) számított intenzitás eloszlása

Figure 4.3. Instrumental intensity distribution of the Somogyszob earthquake 7th March 2019 (19:07 UTC)

2019. május 17. - Budakeszi / 17 May 2019 - Budakeszi**FÉSZEKPARAMÉTEREK / HYPOCENTER PARAMETERS**

Dátum / Date:	2019/05/17
Kipattanási idő / Origin Time:	07:00:26.54 UTC
Szélesség és hosszúság / Latitude and Longitude:	47.545 N 18.943 E (S.D. 0.8 km)
Mélység / Depth:	11.0 km (S.D. 0.9 km)
Magnitúdó / Magnitude:	2.7 ML
Maximális intenzitás / Maximum Intensity:	4 EMS

LEÍRÁS

Május 17-én reggel 2.7 ML magnitúdójú földrengés pattant ki Budakeszi közelében. A rengés az epicentrum térségében érezhető volt, intenzitása elérte a 4 EMS fokot.

A rengés számított intenzitás eloszlását a 4.4. ábra mutatja.

$I \geq 3$ (gyenge érzhetőség) becsült területe 1900 km²

$I \geq 4$ (enyhe érzhetőség) becsült területe 215 km²

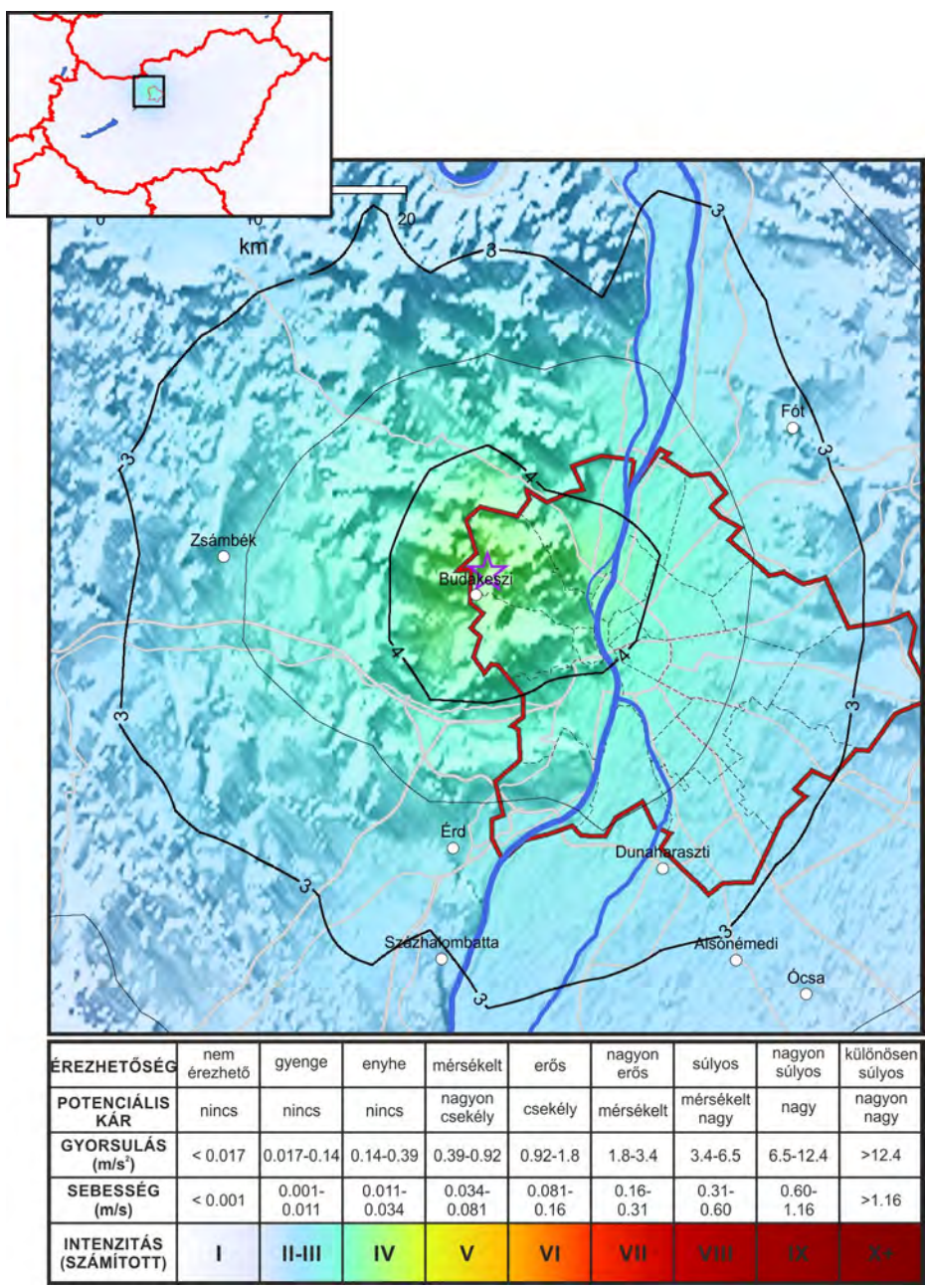
DISCUSSION

On May 17th, a 2.7 ML magnitude earthquake occurred near to Budakeszi. The quake was reported felt from the epicentral area. The maximum intensity was estimated around 4 EMS at the epicentral area.

Calculated intensity distribution of the event is shown in Figure 4.4.

Estimated area of $I \geq 3$ (perceived shaking: weak) is about 1900 km²

Estimated area of $I \geq 4$ (perceived shaking: light) is about 215 km²



4.4. ábra A 2019. május 17-i, budakeszi földrengés (07:00 UTC) számított intenzitás eloszlása

Figure 4.4. Instrumental intensity distribution of the Budakeszi earthquake 17th May 2019 (07:00 UTC)

2019. július 13. - Sóskút / 13 July 2019 - Sóskút**FÉSZKEPARAMÉTEREK / HYPOCENTER PARAMETERS**

Dátum / Date:	2019/07/13
Kipattanási idő / Origin Time:	12:41:12.61 UTC
Szélesség és hosszúság / Latitude and Longitude:	47.435 N 18.849 E (S.D. 0.9 km)
Mélység / Depth:	10.9 km (S.D. 1.0 km)
Magnitúdó / Magnitude:	2.5 ML
Maximális intenzitás / Maximum Intensity:	4 EMS

LEÍRÁS

Július 13-án 2.5 ML magnitúdójú földrengést éreztek Sóskút – Budaörs környékén. A rengés intenzitása 4 EMS fokra becsülhető az epicentrum környezetében. A földrengés csak kis területen volt érezhető.

A rengés számított intenzitás eloszlását a 4.5. ábra mutatja.

$I \geq 3$ (gyenge érzhetőség) becsült területe 1610 km²

$I \geq 4$ (enyhe érzhetőség) becsült területe 210 km²

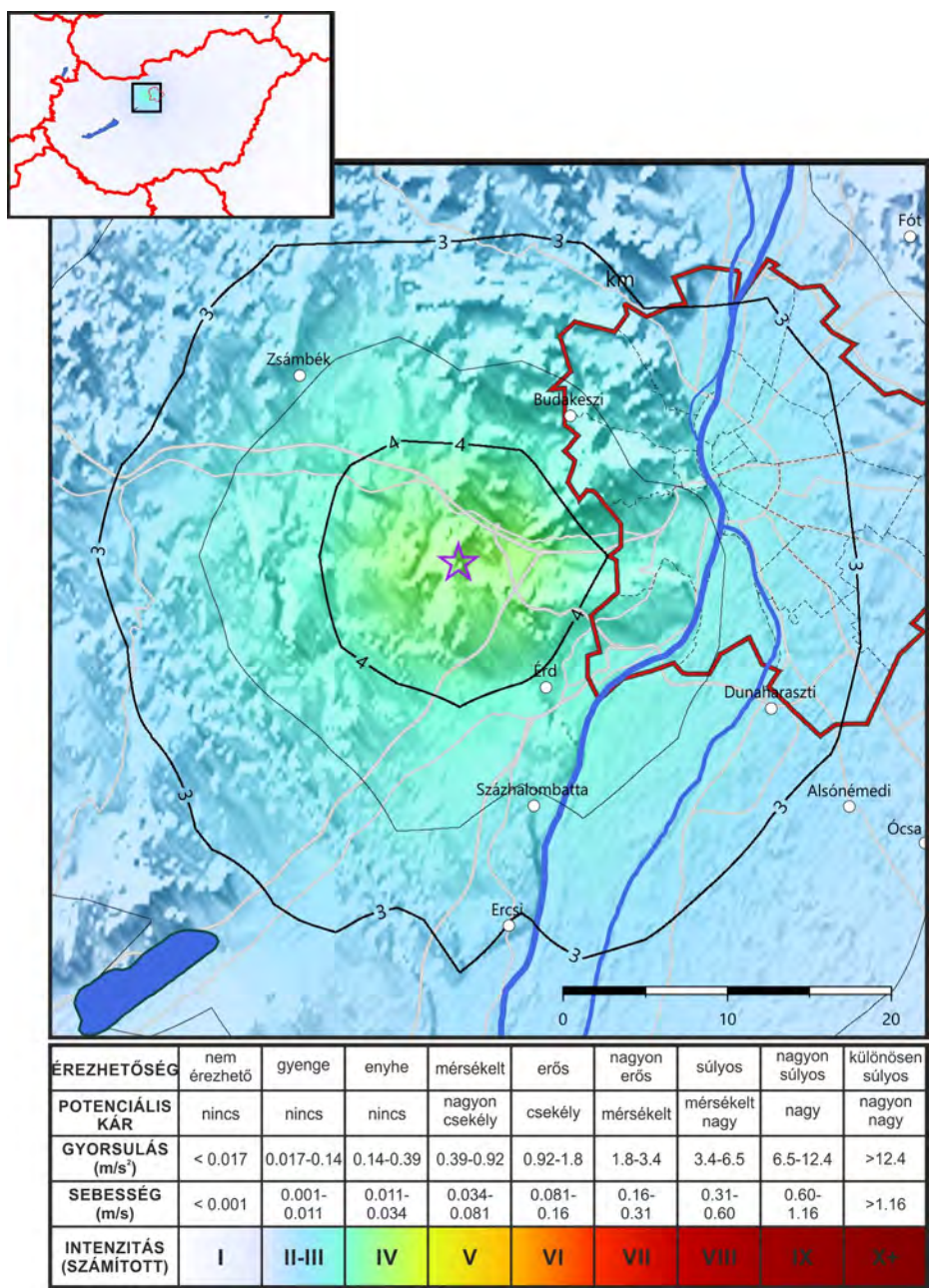
DISCUSSION

In July 13th, a 2.5 ML magnitude earthquake was felt and reported at Sóskút – Budaörs area. The maximum intensity was estimated 4 EMS. The earthquake was felt in a small area.

Calculated intensity distribution of the event is shown in Figure 4.5.

Estimated area of $I \geq 3$ (perceived shaking: weak) is about 1610 km²

Estimated area of $I \geq 4$ (perceived shaking: light) is about 210 km²



4.5. ábra A 2019. július 13-i, sós-kúti földrengés (12:41 UTC) számított intenzitás eloszlása

Figure 4.5. Instrumental intensity distribution of the Sós-kút earthquake 13th July 2019 (12:41 UTC)

2019. július 22. - Jászberény / 22 July 2019 - Jászberény**FÉSZKEPARAMÉTEREK / HYPOCENTER PARAMETERS**

Dátum / Date:	2019/07/22
Kipattanási idő / Origin Time:	23:14:05.00 UTC
Szélesség és hosszúság / Latitude and Longitude:	47.460 N 19.869 E (S.D. 1.0 km)
Mélység / Depth:	12.2 km (S.D. 1.2 km)
Magnitúdó / Magnitude:	2.2 ML
Maximális intenzitás / Maximum Intensity:	3-4 EMS

LEÍRÁS

Egy kicsi, 2.2 ML magnitúdójú földrengést éreztek Jászberény térségében helyi idő szerint július 23-án éjjel. A rengés intenzitása 3-4 EMS fokra becsülhető az epicentrum környezetében. A földrengés csak nagyon kis területen volt érezhető.

A rengés számított intenzitás eloszlását a 4.6. ábra mutatja.

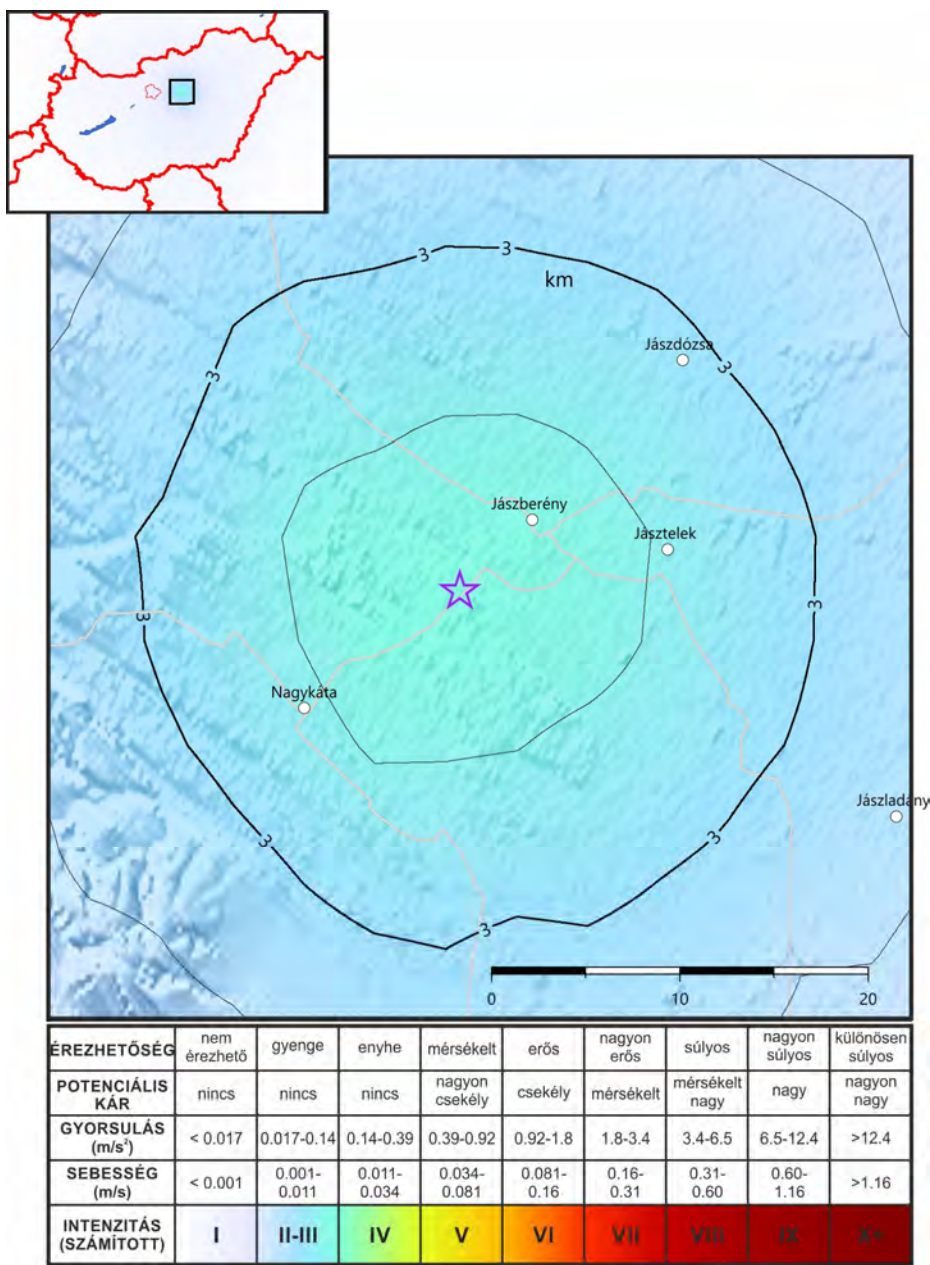
$I \geq 3$ (gyenge érzhetőség) becsült területe 1020 km²

DISCUSSION

A small 2.2 ML magnitude earthquake was felt at Jászberény area around midnight local time of July 23rd. The maximum intensity was estimated 3-4 EMS. The earthquake was felt in a very small area.

Calculated intensity distribution of the event is shown in Figure 4.6.

Estimated area of $I \geq 3$ (perceived shaking: weak) is about 1020 km²



4.6. ábra A 2019. július 22-i, jászberényi földrengés (23:14 UTC) számított intenzitás eloszlása

Figure 4.6. Instrumental intensity distribution of the Jászberény earthquake 22nd July 2019 (23:14 UTC)

2019. augusztus 11. - Tenk / 11 August 2019 - Tenk**FÉSZKEPARAMÉTEREK / HYPOCENTER PARAMETERS**

Dátum / Date:	2019/08/11
Kipattanási idő / Origin Time:	23:29:46.78 UTC
Szélesség és hosszúság / Latitude and Longitude:	47.644 N 20.330 E (S.D. 0.9 km)
Mélység / Depth:	14.4 km (S.D. 1.0 km)
Magnitúdó / Magnitude:	4.1 ML
Maximális intenzitás / Maximum Intensity:	4-5 EMS

LEÍRÁS

A február 22-i 2.2 ML magnitúdójú földrengést követően augusztus 11-én éjjel 4.1 ML magnitúdójú földrengést jeleztek ismét Heves megyéből, Tenk térségéből. A rengés intenzitása 4-5 EMS fokra becsülhető az epicentrum környezetében. A földrengés viszonylag kis területen volt érezhető.

A rengés számított intenzitás eloszlását a 4.7. ábra mutatja.

$I \geq 3$ (gyenge érzékenység) becsült területe 6200 km²

$I \geq 4$ (enyhe érzékenység) becsült területe 600 km²

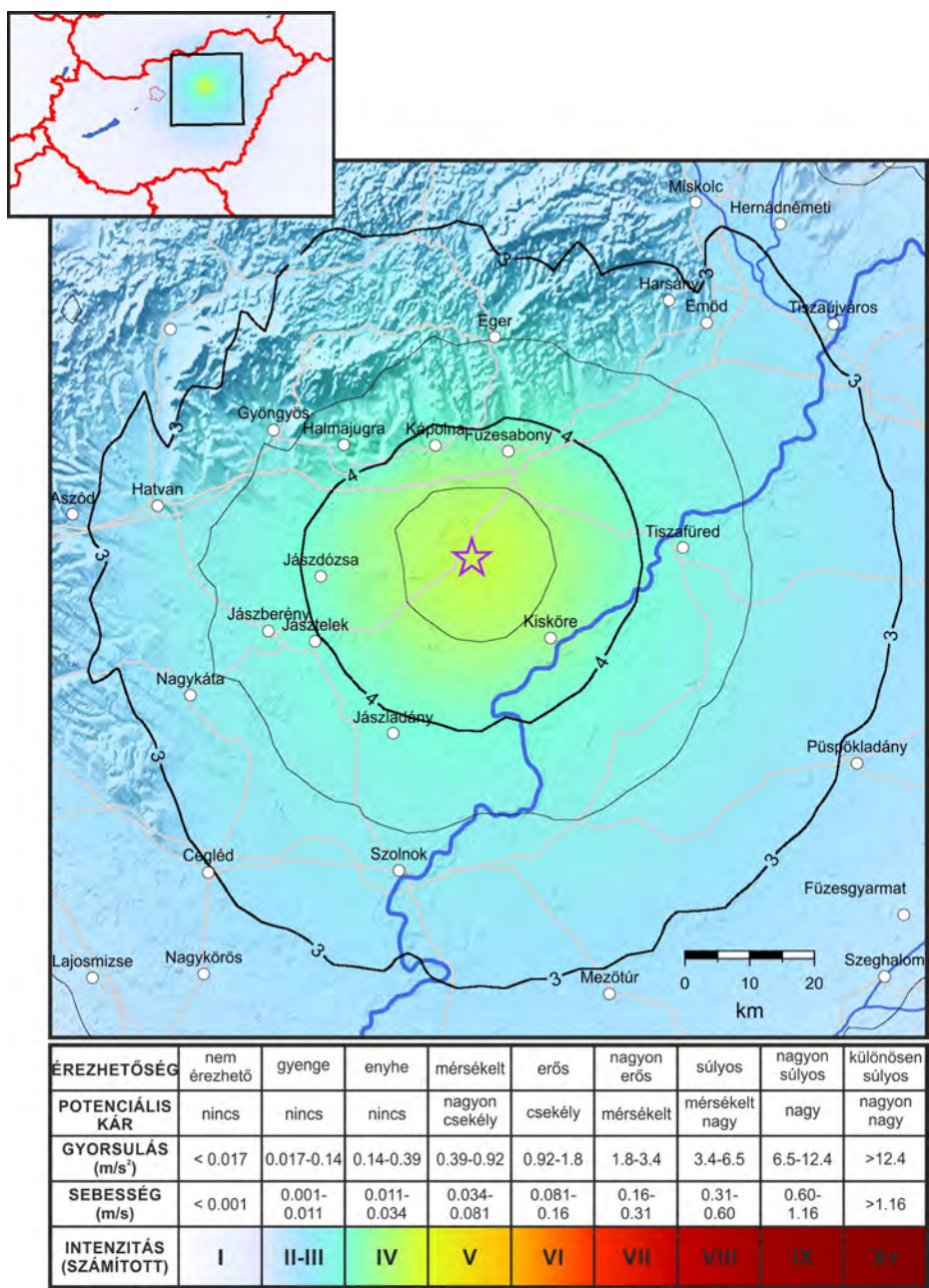
DISCUSSION

Following the February 22nd 2.2 ML earthquake, another 4.1 ML quake was reported felt from Tenk, Heves County in 11th of August. The quake was somewhat larger than the previous one, the maximum intensity was estimated around 4-5 EMS at the epicentral area. The earthquake was felt in a relatively small area.

Calculated intensity distribution of the event is shown in Figure 4.7.

Estimated area of $I \geq 3$ (perceived shaking: weak) is about 6200 km²

Estimated area of $I \geq 4$ (perceived shaking: light) is about 600 km²



4.7. ábra A 2019. augusztus 11-i, tenki földrengés (23:29 UTC) számított intenzitás eloszlása

Figure 4.7. Instrumental intensity distribution of the Tenk earthquake 11th August 2019 (23:29 UTC)

2019. december 13. - Sóskút / 13 December 2019 - Sóskút**FÉSZKEPARAMÉTEREK / HYPOCENTER PARAMETERS**

Dátum / Date:	2019/12/13
Kipattanási idő / Origin Time:	16:57:44.22 UTC
Szélesség és hosszúság / Latitude and Longitude:	47.436 N 18.842 E (S.D. 0.8 km)
Mélység / Depth:	9.2 km (S.D. 0.8 km)
Magnitúdó / Magnitude:	2.9 ML
Maximális intenzitás / Maximum Intensity:	4 EMS

LEÍRÁS

Néhány hónappal a július 13-i 2.5 ML magnitúdójú földrengést követően december 13-án 2.9 ML magnitúdójú földrengést jeleztek ismét Sóskút - Törökbálint térségéből. A rengés intenzitása 4 EMS fokra becsülhető az epicentrum környezetében. A földrengés kis területen volt érezhető.

A rengés számított intenzitás eloszlását a 4.8. ábra mutatja.

$I \geq 3$ (gyenge érzékenység) becsült területe 2500 km²

$I \geq 4$ (enyhe érzékenység) becsült területe 350 km²

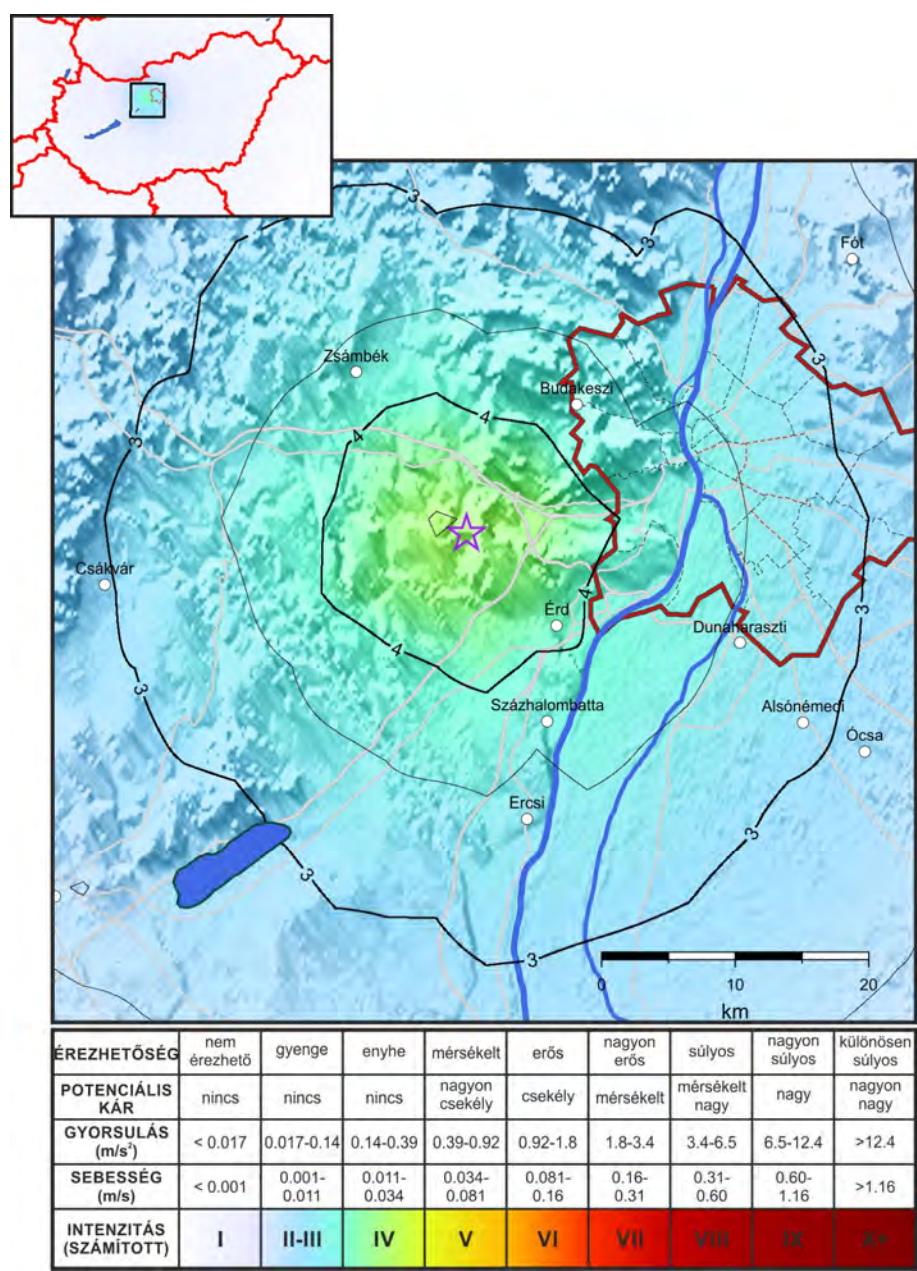
DISCUSSION

A few months after the July 13th 2.5 ML earthquake, another 2.9 ML quake was reported felt from Sóskút – Törökbálint area in 13th of December. The quake was somewhat larger than the previous one, the maximum intensity was estimated around 4 EMS at the epicentral area. The earthquake was felt in a small area.

Calculated intensity distribution of the event is shown in Figure 4.8.

Estimated area of $I \geq 3$ (perceived shaking: weak) is about 2500 km²

Estimated area of $I \geq 4$ (perceived shaking: light) is about 350 km²



4.8. ábra A 2019. december 13-i, sós-kúti földrengés (16:57 UTC) számított intenzitás eloszlása

Figure 4.8. Instrumental intensity distribution of the Sós-kút earthquake 13th December 2019 (16:57 UTC)

HIVATKOZÁSOK / REFERENCES

- Field, E.H., Jordan, T.H. and Cornell C.A., 2003. OpenSHA: A Developing Community-Modeling Environment for Seismic Hazard Analysis, *Seismological Research Letters*, 74, no. 4, p. 406-419
- Grünthal, G. (editor), 1998. European Macroseismic Scale 1998. Conseil de L'Europe, Luxembourg, 1998. pp. 99.
- Lee, W.H.K. and J.C. Lahr, 1975. HYPO71 (Revised): A computer program for determining hypocenter, magnitude, and first motion pattern of local earthquakes. U. S. Geological Survey Open-file report 75-311.
- Mónus, P., 1995. Travel time curves and crustal velocity model for the Pannonian basin. MTA GGKI Technical report
- Reasenber, P.A. and D. Oppenheimer, 1985. FPFIT, FPLOT and FPPAGE: Fortran computer programs for calculating and displaying earthquake fault-plane solutions, USGS Open File Report No. 85-739.
- Tóth, L. and P. Mónus, 1997. The micro-seismic monitoring network of the Paks NPP, in: *Seismic Safety of the Paks Nuclear Power Plant*, Akadémiai Kiadó, Budapest, 1997, pp. 113-121.
- Tóth, L., P. Mónus, T. Zsíros and M. Kiszely, 2002a. A Pannon-medence szeizmicitása, *Földtani Közlöny* 132/különszám, 327-337
- Tóth, L., P. Mónus, T. Zsíros and M. Kiszely, 2002b. Seismicity in the Pannonian Region - earthquake data, EGU Stephan Mueller Special Publication Series, 3, 9-28
- Tóth L., Mónus P., Bus Z., Győri E., 2008. Seismicity of the Pannonian Basin, In: E.S. Husebye (ed.), *Earthquake Monitoring and Seismic Hazard Mitigation in Balkan Countries*, Springer Verlag, NATO ARW Series, Vol. 81, p. 97-108.

A MELLÉKLET

EURÓPAI MAKROSZEIZMIKUS SKÁLA (EMS)

1 ☞ **Nem érezhető**

Nem érezhető, még a legkedvezőbb körülmények között sem.

2 ☞ **Alig érezhető**

A rezgést csak egy-egy, elsősorban fekvő ember érzi, különösen magas épületek felsőbb emeletein.

3 ☞ **Gyenge**

A rezgés gyenge, néhány ember érzi, főleg épületen belül. A fekvő emberek lengést vagy gyenge remegést éreznek.

4 ☞ **Széles körben érezhető**

A rengést épületen belül sokan érzik, a szabadban kevesen. Néhány ember felébred. A rezgés mértéke nem ijesztő. Ablakok, ajtók, edények megcsörrennek, felfüggesztett tárgyak lengenek.

5 ☞ **Erős**

A rengést épületen belül a legtöbben érzik, a szabadban csak néhányan. Sok alvó ember felébred, néhányan a szabadba menekülnek. Az egész épület remeg, a felfüggesztett tárgyak nagyon lengenek. Tányérok, poharak összekoccannak. A rezgés erős, nehéz tárgyak felborulnak. Ajtók, ablakok kinyílnak vagy bezáródnak. Néhány esetben az ablaküvegek betörhetnek. Néhány vályog- és téglalapú falában hajszálrepedések keletkezhetnek, kisebb vakolatdarabok lehullhatnak.

6 ☞ **Kiseb károkat okozó**

Épületen belül szinte mindenki, szabadban sokan érzik. Épületben tartózkodók közül sokan megijednek, és a szabadba menekülnek. Kiseb tárgyak leesnek. Hagyományos épületek közül sokban keletkezik kisebb kár, hajszálrepedés a vakolatban, kisebb vakolatdarabok lehullanak.

7 ☞ **Károkat okozó**

A legtöbb ember megrémül, és a szabadba menekül. Bútorok elmozdulnak, a polcokról sok tárgy leesik. Sok hagyományos épület szenved mérsékelt sérülést: kisebb repedések keletkeznek a falakban, kémények ledőlnek.

8 ☞ **Súlyos károkat okozó**

Bútorok felborulnak. Sok hagyományos épület megsérül: kémények ledőlnek, a falakban nagy repedések keletkeznek, néhány épület részlegesen összedől.

9 ☞ **Pusztító**

Oszlopok, műemlékek ledőlnek vagy elferdülnek. Sok hagyományos épület részlegesen, néhány teljesen rombadől.

10 ☞ **Nagyon pusztító**

Sok hagyományos épület összedől.

11 ☞ **Elsőprő**

A legtöbb épület összedől.

12 ☞ **Teljesen elsőprő**

Gyakorlatilag minden építmény megsemmisül.

(Részletesen lásd: Grünthal, 1998)

APPENDIX A

EUROPEAN MACROSEISMIC SCALE (EMS)

- 1 ☞ **Not felt**
Not felt, even the most favourable circumstances.
- 2 ☞ **Scarcely felt**
Vibration is felt only by individual people at rest in houses, especially on upper floors of buildings.
- 3 ☞ **Weak**
The vibration is weak and is felt indoors by a few people. People at rest feel a swaying or light trembling.
- 4 ☞ **Largely observed**
The earthquake is felt indoors by many people, outdoors by very few. A few people are awakened. The level of vibration is not frightening. Windows, doors and dishes rattle. Hanging objects swing.
- 5 ☞ **Strong**
The earthquake is felt indoors by most, outdoors by few. Many sleeping people awake. A few run outdoors. Buildings tremble throughout. Hanging objects swing considerably. China and glasses clatter together. The vibration is strong. Top heavy objects topple over. Doors and windows swing open or shut. Minor damage e.g. fine cracks may occur in ordinary buildings.
- 6 ☞ **Slightly damaging**
Felt by most indoors and many outdoors. Many people in buildings are frightened and run outdoors. Small objects fall. Slight damage to many ordinary buildings e.g. fine cracks in plaster and small pieces of plaster fall.
- 7 ☞ **Damaging**
Most people are frightened and run outdoors. Furniture is shifted and objects fall from shelves in large numbers. Many ordinary buildings suffer moderate damage: small cracks in walls, partial collapse of chimneys.
- 8 ☞ **Heavily damaging**
Furniture may be overturned. Many ordinary buildings suffer damage: chimneys fall, large cracks appear in walls and few buildings may partially collapse.
- 9 ☞ **Destructive**
Monuments and columns fall or are twisted. Many ordinary buildings partially collapse and few collapse completely.
- 10 ☞ **Very destructive**
Many ordinary buildings collapse.
- 11 ☞ **Devastating**
Most ordinary buildings collapse.
- 12 ☞ **Completely devastating**
Practically all structures above and below ground are heavily damaged or destroyed.

(For details see Grünthal, 1998)

